

[illegible]



**Abstract**

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<223>      unsure at all n locations
<400>      33631
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<223>        unsure at all n locations

<400> 33632

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<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33633

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<211> 475

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33634

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 ttttaataat taatataaac gtattaagtg agtaaattgt cacgcgtatg tttgtacata 360  
 ataatatata ttacaaatac atgtgtacca gacgctctta gctggcatat tgatttaata 420  
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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 <213> Glycine max  
 <223> unsure at all n locations  
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 agcaaaatta tccttaaaact atcacgcaca tgatgaatta tcgttaacaa aaatcaaact 180  
 atgacagaca agggaatgtc attataatga aattgtaaaa gttatagaat ttactatata 240  
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<213> Glycine max

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tact 304

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<213> Glycine max

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cttctggcta agatcaagtg tagcatctgt tcttatcagt tgaatatttg atatgtggac 240  
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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33639

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 ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttctgg 240  
 atgatataga ttctttgtat accctnttaa gatcttcatg tatcgctcaa ccgggtacat 300  
 ccaccgtaga taaacaggac cacaacattt gatttctctg accagatgca caatcaagtg 360  
 aatcatgatg tcaaagaaag cagagggaan atacatctnc aactgngcac agttaattgc 420  
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 gggttgtagc cagagccaag gcagtggcta acacatactc gactcccgac aaagtccacg 360  
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 <213> Glycine max

<223> unsure at all n locations  
 <400> 33641

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aatacaatga ttaatataga taatttggac agtttacgaa gagtcatttt ttatacataa 240  
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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 aggaggaaaa ttgtcccttg atataaatta ggttgaactc ccatcttggt tgctttttcc 240  
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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 aaaacttttc tatacaaaag ttagtcataa aagacgacta acagtaaggc aatgaaatgg 240  
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522

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<213> Glycine max

<223> unsure at all n locations  
<400> 33646

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ggatctatat taangttata aggctgactt ggacacaaaa tctaaagatg atacacaggc 240  
tagtcaccga tctatctttt aatc 264

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<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33647

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agctctcttg agaagctttc ttgagaaaac ttccttgaga aacttctttg agaaaacggt 240  
cttgagaagc tagagcttat ctacacacac ccctcgaata actaagctca ctttcttgag 300  
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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33648

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 tcgaatgcat gaaattgagg atgatgaatg ccatgtttga ttgtgatagc cacttagcca 240  
 aaaagttgac cacatgcttg aatgatttat cctttgcacc cagtttgagc tgaatgaatt 300  
 attgattgat tgaaccctgt gcctatacaa tggtatctcc tgctaccttg acgtacgttg 360  
 taagagagca tcatcacatg aagcg 385

<210> 33649  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 33649

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 tttttttcta catcgactct cgttgcgttt tgcaaagatc tgatctgggt cgtggatatt 180  
 tcaatgtgaa agttaagggt ctttttgcg catagtaata attgaaagaa acaaaacaag 240  
 gtgggatttt taaaggggggt ggtggagatg gatcgttctg ctatgactgt tgggccagga 300  
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<210> 33650  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 33650

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 ggagtcctat ggaaggaaga tatagaaacg aatttacttt gagattgaag aaatgttgat 360  
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<223>      unsure at all n locations
<400>      33651
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<400>	33652
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atcccaagtc ttaagactat tacctttaga tgaatagagc catatttctg cctctacaga	180
caaagaatat gaatacaagc tcaatcta atgcgtgctca tgcacaccag ccagtatgac	240
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<210>	33653
<211>	459
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      33653
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 aacanacatg gaggggtggac atatatctct gaatgtgtca catatatntt gcggatacaa 420  
 aacatatgat ngaaaagatt gactaatag 449

<210> 33658  
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 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33658

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 aaaagttttg tggccccaag aggaatggcg ggttgggatt tgcgaacttg catgaatcga 180  
 ataaagcttt catcatgaag ttggcttggg ggctgataaa taccgccat gcgttttgag 240  
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 ggagtgttta gagattcaaa tgggaatcta cgcgcttgta gtgtcttcat gatacaatta 360  
 tcaactatcc ttatatctct tgatttggct tattacaggg aagctccagc agtctcaatc 420  
 ttatgcta ataatcagga atatattagc ttctgatggc tggagattgg ag 472

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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 tgaataaaat aaatagcata ttggaagcaa gtttcaaaaa aaggaggagaa tcagaagact 180  
 ctatagtgtt acaaactata atataagaaa ttgttgataa ataaactgca aggggagcaa 240  
 agtttcagaa aactgcttca cctgcagctt gacatattag tctttttact attaagaaga 300  
 gaanaaaggt aataccaaat ttgacaaagt tntttagggg caagaaaaac actanggata 360  
 gatagtgaat tcaaaataga aaaagtgata attatggctc tntatcac 408

<210> 33660  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 aaagccaaaa attcactata aaaatatggc ggatgacgta acagaaaatg acggatgtca 180  
 tggcgaacaa aaaaaaaata catatattata aagtcactga aattgaaaaa aacaatggat 240  
 tgcattcaaa taaactaaaa atgtttcatg agttcataca ataatacaatt atcaatacca 300  
 aataaactca ttaaagagtt cacaataaga aaatgataaa aaataaaaagg ggtgtcaaat 360  
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<210> 33661  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33661

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 attatcacia tcagacacgt tgataagaac atgatggatt tcattcttgt tatattntat 180  
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 gattttgaca ctattactat tactgagaaa ttctctctct ctcttnttgg tttttctcct 300  
 ttgtatgtgc tcaaactcat aattcanaaa anaatacacc aaatatntat tattctaaac 360  
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 taatatnta attttttctc ttttaatt 447

<210> 33662  
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 <213> Glycine max

<223> unsure at all n locations  
<400> 33662

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tagtcaatcg ctacgcgtat ggatgtccaa ctaaggactt ggccaattca tgattatgaa 240  
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tgaagggaca accacatttc ctactcccag tgtcttttct aatgaattct ttattcctac 360  
acttgtagt accactcctt tcacacncaa ttaagacaaa tgaacttctt cctctgctat 420  
cggtatctgt gtcagacctc ataatcattg caacaaatcc attntcatt 469

<210> 33663  
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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33663

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cgaatttcgt aacgatactt gttatctttc cgtaagggtta cagaacctta cgaaacatgt 240  
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<213> Glycine max

<223> unsure at all n locations  
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 tagagaaaac ggtttatcaa tcataagggt taactatata tatatatggt cacggacagg 240  
 tcaaggagtg tatagaaggg gagagggggc aatattttta cataattata taatatttat 300  
 gttntaataa ataataattt taaaaatatt gattattaat tctatgaata acattagaga 360  
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 attttcttta atataatttt ttatatacac ac 452

<210> 33665  
 <211> 419  
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 <223> unsure at all n locations  
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 gcctaattgtt tctattttta agcatanaga aggtcaagta aaggcggtct atgtgaagaa 180  
 gttcatgag agagtcaaag atcaaattga caggaaaaat aaaagctatg ctaaacaagc 240  
 caacaaaggg agaaagaagg ttgtcttcga acctggagat tngttttggg tgcacatgag 300  
 anaagaaagg tttatggaac anagganatc atagcttcaa ccaaggggag aatggaccat 360  
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 <223> unsure at all n locations  
 <400> 33666

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 gaagaacata ttgcagtagt agggactact agcaacaata agttttcaaa gagaaaagct 180  
 ctagatgagg gttcactgta atcaagcaag tcggagacct agcatgatca cagattcacc 240



ccgtcatcga tgagtgcaaa gagaagctaa atctagcggc gactcaogaa caaaggctag 420  
aggatgagta cgccaagata tc 442

<210> 33669  
<211> 275  
<212> DNA  
<213> Glycine max

<400> 33669

gcaataagct ggaccgggat cttgagcgcac tgagtttgca gctgattcaa caggggagca 60  
ctgcggggcgc ggatcaaaaa agagtgcgga agtcaagccg cccggactcg agaactccgt 120  
ctatgatcca ctaacagaca cggcgcctgg tccaaccgcg cgaacgcttg cctttcactc 180  
gatcttcttc ttatctaaac ggatgtgaaa aaccttattt acattcgagt gcgcgctctc 240  
gcactctcag gtggaaagtg tcgctcccc acgcg 275

<210> 33670  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33670

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atggccaaaa naatccacgc ctgtggatat ccgcatataa catccgcaat gaatttgaaa 120  
cgggtagtgt,aaatggatat ccgctacctg cagatacggg tatttcatct acctattagt 180  
taatgcggtg ggggaggata tcgtagtccc ttgcaccatg ggtaccact acccgtagaa 240  
ttaccaaaat aacctcatat atatataact tcgtacccat tgcccagagg ctcttcgcta 300  
tgccaaggta tgggtggagg atattgtacg cagccttacc cttgcatatg canagaggct 360  
gtntccggat tcgaacccat taccaaaata acctcatata tatatatata tatatatata 420  
tatatatata tatatatata 440

<210> 33671  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 33671

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 tccaataact taatattctt gtcataccca gcactcaaaa acttggtccc atcattgctg 120  
 aaacagatat ccctaacggc tntcgagtgt cccatgtaag tctcataca cttgccagag 180  
 ttgaaaacat cccacatctt aatcttggtg tccatgccag cagagagaat caaatggcca 240  
 tacttgggga acaacctaat agcagacacc cctttggtgt gtccactcca agtatgaatc 300  
 aatctctcgg gcatataaca atgatcatta ctgcctttg catccttgng aggccgcatc 360  
 caagacctac cttggtaatc cttctcctct ttcccatgaa aaagtgtttt atctttaaca 420  
 acctcaactn ttctccctcc anaaccactc ttctc 455

<210> 33672

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33672

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 cgattctttt ggcgttcacg tttgtggagg aaacgtaatc aaactttcct ctcttcaatc 180  
 caacctcgat tctttcccgg gcaaacacca gatccgcana gctggacggc atgtaaccca 240  
 ctagcttctc atagtagaac actggcagag tgtctaccat catggtgatc atctctctct 300  
 caaccatggg aggagctact tgtgccgcca aatccctcca tcgctgcgca tattctntan 360  
 aggtttcacc ctctntctta nacatattct gcaattgagt acggtcagga gccatatcag 420  
 aatngactga tactgct 437

<210> 33673

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33673

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aaggctctgag agaccatata agtttcctaa cgattttctaa ttatgtgggc cattaagtct 120  
 atcatatgct gacaatagcc gagaagccca tgaatctctt cgggggcgga gtacgtgtct 180  
 gccatcgctt tggccttggc taacaatcgg ggaagttctt gactcccggt caaggtaaga 240  
 gcaaaccgat ccatccacat gggtgcctct tgggtgtaaag agtcgatcac ccttcctcta 300  
 gcctcttttt cgcgtatac ttgggcatat tcgtccgcaa tcctatgctc gtgggcccgcg 360  
 gctagaccta actcttcttg gtacttggcg atgatagcta gcatattggt ctccgtctcg 420  
 cataaacgct gagacaagct tcttt 445

<210> 33674  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33674

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 cctcaacagt acgttggaac aatatctcca tgcttttggt cattccaacc cgtcgagatg 120  
 gggaaaattc ctcacgttac agaattggtt tataaacaccg ctgttcattc tgccacagga 180  
 ctgtcacctt atcaaacagt ttatggtaaa cctcgtccat ccattcccca ttatttgctt 240  
 gggctctcta ctattgaggc tggtgaccaa ttgctttcag agtgacaagc tatgttgcaa 300  
 gctctccata agaagctttt caaagctcan actgctgtga aggtgcaagc tgacaaaaaa 360  
 cgcattggaag tgcctatag tattggtgat tgggtttata ttcgtttttt cccctaccat 420  
 caaacgtcag tttccaggat gacatata 448

<210> 33675  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33675

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 ctctttgcct ccttngcct ntcttatcct ctgccaactc ttttaccctt tctctttcca 120  
 ctctttcttt tcaaactaac ataacacctt gaacgtgact tccccatttg gaaccaaaaa 180

attagtccaa aatagataga taaatattct tatatcttaa ctactttttc tttctttatt 240  
 tttatattca gcttcttttt tcttttaatt tgatttggtta ctagtctgt atattgcac 300  
 aagcattatt cttctctttt atctttccgt tttctgaatg ttttgccat ttctttggat 360  
 gctattctat aatgacaatc acggctcctt tttttcttcc ctctctanac taaaatatcg 420  
 agtatatgca atccgattct tatgtagaag gtctccacac tttcctatat at 472

<210> 33676  
 <211> 327  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33676

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 tagaactttg cttgtatctt tctgtcatcc tttacctcgc acttcgggaa ctgctgccac 120  
 tttcaccctt tggattcttt ccttctcaaa ccacaaagca atttgtccaa tttggatcac 180  
 aactcacat acagccgatt agaaagacct tcgcatttca ctatttcttc tcttctcaca 240  
 caagatacat angattttct tcttctgcta ccttcaaaca tacaagaaga acatgccctt 300  
 atcgagttac gtgactcact cacacat 327

<210> 33677  
 <211> 493  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33677

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 cctcatgaca atggaggata tacatggaga ataagatcaa gaacaaggaa ttaaagtga 120  
 ttgaccgaac aaaaagatag aggcagaaaa agaacatcac atagacaaag atgctcttga 180  
 taccatatga ttagctcca tgtggagctt gtaggccttg gatcttcttc atcaattgag 240  
 tcctttgctt cttgaagatt aatggcagca gaatggagaa ggaagaaaga tgattggaga 300  
 tgccacttca aggagaagat gagtcaagaa caagctcacc accatangaa gccatggata 360  
 aaagcatgaa ggtaggagaa gatgagtga gagagaatga gagaagaagc acgacatctt 420

gtgcctcaca tgaggtctga actntgaaat gtaattctca catgatcaaa gttggaacaa 480  
 tgcacacaca acg 493

<210> 33678  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33678

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 cagcctgtcc cttccttcta gaatgctgct ggtccaagca agccatatgt tectcttcca 120  
 atgcagcaac agcagcaatc acaacaaaga caacaaacac ctgaggcccc ttctcaacct 180  
 tccttanang anntagtaag gcaaatgacc atccagaata tgcaattcta gcaagagaca 240  
 ataacctcca ttcagagtct gaanaatcac atggggcaga tggctactca nttgaaccaa 300  
 gctcactccc caaattntga caaattgcct tcacagacta tgcagaaatc gaaaatgtg 359

<210> 33679  
 <211> 566  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33679

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 acaanactca agctngcaca gaggagcngc taacaaatth gaaacncnc tcatttttta 120  
 cgattttatat tcaacatctt ctcatggctc agttgaataa aattctttat taaaacgact 180  
 caatccaatt gctctctata tgatctattc caacatgtaa ttttaccttg aaatatttca 240  
 actacatgat taaaatgaat taccagata aaagtgatca tctaaacaca ctcttagtga 300  
 ctttatccgg ctgctctact ggaattttacg tgtattcgag acacgaaaaa ttacaacata 360  
 cctcaaattgt tgggtcaaaca atatgaaatc gacgagcaca caatcaattc gtgcgccaat 420  
 tgttacccaa tcatacagag cagatcaatc aactctataa cgtagagcat cgtacaatac 480  
 caagctcacc cgcacaaaat caatcacaat tttttagtgc ataacaatcg tacagtacta 540  
 tagtcacgag tacatgcctg aactcg 566

<210> 33680  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33680  
  
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 ttttttaagg aaaacacccat aactaaacgc gccgcaagg atccctatcg caccagatcc 120  
 aaatctagaa cgatgggtga tcaaaaggag acgcangaac agatgaaagc cgacatgtcg 180  
 gctctgaaag aacaaatggc ctccatgatg gaggccatgt tangtatgaa acagctcatg 240  
 gagaagaacg cggccactgc cgccgctgtc agttcggtcg ccgaagcaga cccgactctc 300  
 ttggcaacta cgcaccatcc ttctcanac atagtaggac ggggaaggga cacactgnng 360  
 cagatggca gccctcacct gngatacaac cgagcggtt acccttatgg attgccgcca 420  
 actattccca cccatc 436

<210> 33681  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33681  
  
 cccatctgac ctactagccc aattaacatc gacactaccc gttgaaagga tatnaggtga 60  
 tacaccaaag cttccaaaca tggaagcaac catgagaggt gtcctctctt cataacctat 120  
 nttcttcgag gcaacacacc ttccatacca aaaccctacc ccatcaatat catgaccctc 180  
 cttttcaacc gcacatgtga aactaaccag atcatctgct gcaaaaaact caagcaaagc 240  
 tgaaattata tgatgcatcc cttcttttgc atactcctcc atgaccaaac caaattgaga 300  
 atgtctccct tggaacaccg acatggagaa ataaatattc cttaaaactc ggcagatctg 360  
 acaatcac 368

<210> 33682  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 33682

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gagatgcagc ggaagataat agagagaagg tgaggggaga cgccatccac tagggaataa 120  
gcatggaag aatgagcttc acctccaaga gagtgccttg gataagaagc ttagagagga 180  
agcttcagtg gaggaaaaaa aagagagaga gaaaganaaa gggggtgagc atgaaattga 240  
aggaggaaaa gagggagaga agttggactt tgtagtgtgt ctcaacagac tctcattcat 300  
caaagttaca acaagtgtta cacatgcttc tatttatagc ctangtagcc tccttaagaa 360  
aacttcttga gaagcttcct ttagaagcta gagcttagct acacacaccc ctttaataac 420  
taagctcatt tccttgagaa gatntctgga gaggctagag cttagctaca caca 474

<210> 33683  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33683

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gatggtgact tcttgatagt tccccaacaa ggaagtaagt cactacaaca atttccttga 180  
tggttcaatg ttaactaaga cagttgtgtt tgggtttaat ttcattatac ttgtgtgcat 240  
atagatctct ctgcacctag ataatatgct tggtgatctg tgccaatgaa cttggctgga 300  
cttgaatata aaagaaattt cttaattgaa ggatgcaatg catatgaatg acacatattg 360  
ttcttttc 368

<210> 33684  
<211> 315  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33684

aagttaagat nattanagga attaaagana aacaanagat aggaagtgag ttatttnatt 60  
nntaantaat gaagagaata aagataacat gtaggtataa atatnatata aagaaaatac 120

aacttattta agcatgactt acgttatttc accactttgt cgcataacat tacctcgcaa 180  
 caccacacat ttcatttatt ttcacaacat tcacgtactc aaggatctaa acacaatatc 240  
 atcaagtcaa tcaatatcga tcaatacaca agcgttatgc aacatatata ctaaaactta 300  
 atcctatatg caagt 315

<210> 33685  
 <211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33685

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 taattatgac ctctccagca acaggtacaa tcccggatgg aggaatcadc ccaaccttag 120  
 atggctgaat ccttcacaac agcagcaaca acaacaacct tattttcaaa atgctgctgg 180  
 cccaagaaca ccatacgttc ctccaccaat ccagcaacaa caaaaacagc aacagcccca 240  
 gaaacaaaaa acaattgagg cccctccgca accttccctt gaagatcttg tgaggcaa 300  
 gactatgcaa aacatgcagt ttccacaaga gaccagagcc tncattcaga gcttaactaa 360  
 tcagatggga cagttggcta cacagttaaa tcaacaacag tcctagaatt ctgatagaat 420  
 accttctcaa tctgtccaaa atcacanaaa tgtgagtgcg aatacattg 469

<210> 33686  
 <211> 461  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33686

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 attaaatatc caatgtgac aattatttta agaagtaat caattatatt atcatttcaa 180  
 tcgattaaag tattcttccc aacatctgaa aaactttcaa aaacantgta atcgatttga 240  
 ttattgatgt aattgattaa agtggtcttg ataacttctg ggaacacctt taagaatgaa 300  
 gtaatcgatt acgatcatct ggtaatcgat taaagtagag actcgtgaca tatcagacat 360

ggtctcaact aaactatata attgattaaa ccgaaactag aatntctctg caagctacac 420  
 atactcgtgt aatcgattac gataagcctt gtaatcgatt c 461

<210> 33687  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33687

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 atccggaaca gtgtactctg taagctctc accagagact gaggttgata aataactcaan 180  
 cgctgtctta tcangaatgc tggactcttc aattttctca agaggctggg cttcatgagt 240  
 agctgtattc gatgggatcc aggatacacc agtagatggt cttgaatgag aatggctctc 300  
 aacagcttcc acaaaactta cagagaaccc aacctgacat gtttctgatg ctncatgatc 360  
 attgctgaca tatgtggctg cgaatcatat gccaatatac caacttg 407

<210> 33688  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33688

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 tctcttcatt tatgtgctta agcaacggaa gctgaaccaa tatacctgcg gatattaaca 120  
 aaccaagcct cacaataaaa aaaaaggccc aaaacaaaaa agtgtaatcg atattaaaaa 180  
 taacacatgc atgaattgaa aaagcatgtg ttcaggcatg taaagtaatt gaggcacaaa 240  
 aatgtgaagt taattgataa gtatgatgaa aatcgaaaag agtgtaataa gtgacgaacc 300  
 atgtacatca nggttaacat tcaactcgtg aacttgtttt attagttcag cttgcgagac 360  
 ttgttcggga aggtccacat cgaaggattt gattcccaat tcggcgcatg cttttctctt 420  
 cattcccacg tagctntgtg aatcctttct gttccctact atcacaactg ctagtccc 478



<210> 33689  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33689  
  
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 agcgtaaggc ttaactatca agagcagaag caaaacgacg aatgaatgct taaccatcca 120  
 tgacgaaagc ttcaacactg ctgaatcatc atggacagaa ccttacataa aaagctgctg 180  
 agccaacaac accatacgtt catccagact ttccacaaac actttgtgaa ccaataataa 240  
 ccaacgctta accactcatg acaaaaagcta aaatcatcaa aacatagcta agaggctgat 300  
 gacaataacc tacaacagga caaatatcaa taccacaatg 340

<210> 33690  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33690  
  
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 ngagtttatg aaaaatgaca aggcaccata gcatttatgt aatgttgagt tatagttggg 120  
 aggtttcttt cagtactatt attaattctg taaatcagtg atttgtcctt tctttccttc 180  
 cattccaata ttgcattctc gaccactatg attttctcat agtttcttat tttcngttgt 240  
 ttatccaaac aataggggtg gtcacaggtc ggattggatc agatccgtgg cattntccga 300  
 tctgattcga tcaggttcaa tttggaatgg aatttgtcta gtttaagtat gcaatccgaa 360  
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 attcgcatth ttaagtaaag att 443

<210> 33691  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33691

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 tacacccctt gccttttttt ggtgattctt ttttcgtaaa gttacggaaa cttacgaatt 180  
 tcgtaacgat acttggtttt tttccgtaat gttacggagc cttgcggatt acataatcat 240  
 cccctttttt gacttacgga atgttacgga acctactaa ttgtgcaacg atgtctccat 300  
 ttgatttccg gtgtgtcacg gaactttacg gatngtgcac caatattttt ttttgttttc 360  
 cagcatgtcc cggaatntca caaattgcct aatgatgagt gccaaagcacc tcacaaggac 420  
 canacaaaag ttgcatgtca t 441

<210> 33692  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 33692

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 aaggccacac atgaaagtaa attatgttct ttgatctatt gagatttggg tcatacaaca 180  
 gggaaaccca tacccttgcc attaatccat ctttgcttca gaattgaacc tggaatctcc 240  
 aagttagggg gcctgaccc tactcattga agtgtctgat tgggtttgga tattttgcgt 300  
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<210> 33693  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33693

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 aaatgttttc cttacacttg ggatgcacga cataacaaat tcgaccctaa aacccttctc 180  
 tgtgtgtttg ttggatatag tgatatacat aaaggatata aatactttca tccttctagt 240  
 aagaaatttt ttatctcatg acatgttgtt ttgacgagt cattctttca atataaaact 300

aattgtcatc atacaatttc ctctcctaca cagcatgtag ttagcataat tgattcttgg 360  
 ctacctcata ctaactccag ttcttgtgca gacctaaca caataacaac agctnntgct 420  
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<210> 33694  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33694

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 gaagataaag gaaaagaggt gagaggatgc gtcattccact agagaataag tcatggaagg 180  
 agaagcttca ccaccaagag agtgccttgg ataagaagct tagagaggaa gcttcaatgg 240  
 aggaagagaa tgagaganag aggcattgaa attaaaggag aatagggaga gaagttgaac 300  
 tttgaagtgt gtctcagaag tttctcaatc atcaaagttg tgacaagtgt tacacatatt 360  
 tntatttata gcctangtga ctaacttggt aatntcattn tcatttcatg tgaatntaaa 420  
 agaaatattc caagaat 437

<210> 33695  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33695

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 ttttttgatt attatattat tattttgcct ctttttggtt ttaaactgtg ctacgccatg 180  
 atagatcggg cggtatattat tctaacagag attaaaagat gttacaactc aaatgatcgg 240  
 tggaaattta ttttattttt gattaggcga gaaaataaca taaataaatg actaaagcac 300  
 gtcaaaaggg ggtacggaaa gtaaataaaa taaaataaaa agcatgtgaa acaagtgggg 360  
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<210> 33696  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33696

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 ataattcttt ggtgtgttgt ttcctttctt acctcttaat tatcatttgt tgttgcgac 180  
 ttaaaatctg ttttagaaaa acctatttta aaaaatatta atattgattc ttgttcaaaa 240  
 ggtttttata aaattgtttt atcattcaga agcaaacct actttgagta agaaaaaaaa 300  
 tagaaactac tattttgcag attntgtagc tttttcttag taggttntta agcaatattg 360  
 aactgcaaga ctacttgga gatttacttg aaatattatt tatcaatact tgtaatacac 420  
 aaatactctt gttgactttg attct 445

<210> 33697  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33697

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 gcacagaatc tatctctgcg cgtttagcca ctcaacttgt tgttcttgaa tgataaaggg 180  
 cgcagaacct atctctacgt gtttaccac tcagggttgt gttcctgaat gataaagggc 240  
 gcacaatcta tctctgtgtg tttaccact tagcggtgtg ttcttgaatg ataaagggcg 300  
 tagaatctat ctctgcgct ntaccactc agctcggtgn tcttgaatga taaagcgcg 360  
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<210> 33698  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 33698

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tggtgtgttc ttatataccc taatcttttt ttcttttttt tttaaatagt ctttggaag 180  
atgcacgct tttacctggc ttccagcttg tttaaagacc aatcagaagt tttgttctat 240  
actctatagt gctaaaaaaa tggagtattt tgcatttgga attttgatt gtttctctga 300  
aatatcaaac cctgtaaata cagtttactg gtttgctcta ggtgaataga agtgtgcaag 360  
tgcaagaaca attgngtagg aaaagtcttt ttctttctag ataacatana atgggagact 420  
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<210> 33699  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33699

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tttaaattatt caaatttcaa atgcgaagag tcataactct tcagaagtaa ctatgtaatc 180  
gattacacca ttatggtaat cgattactag taaggatttt cgaaaataat tcccaatagt 240  
cacatctttt catttaaatt ttgaatggcc atcaaaggca tatatatatg tgacttgngc 300  
acgaaattnt cttagtnta cttgctcaaa aagtcttate ctctcaaaag attcaaagt 360  
tcttatcatc taaaattcct tggccaaaac atttgtgatt caataaggaa ttatttgagt 420  
gcttcattgt acaatctatc tctntcaaga gagatntctt cttctcttct tctta 475

<210> 33700  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33700



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 aggtcaaagc gatggcggac gcctactcca ccncgagga gatccacaga ctctcagct 300  
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 ggtcactcag atcttgact 379

<210> 33703  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33703

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 tttattgaat ccaaatatat cgacagctcg aatagaatct gatgcttgag caattaaacg 180  
 acataacttt tactcggatg ttgattggtc ctgaatatat ccacacgctc aaatgaatac 240  
 cgaactctga caaattcaaa gacatacttt actogatgct gatgagtctg aataatgaga 300  
 cgctcaattg atccaagctt gacaatcaac acatacttta ctcgatgtga tgatccgata 360  
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<210> 33704  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33704

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 tttttgtttt tattattgaa aaaaagatta ctgaaaaata actctaaact cttgatcatt 180  
 tgtgtcaaac caaagtggca gcttaattag tttctttgtc caactcgacg tacgtttatc 240  
 taaaagaagc agcaacaagg gtgttctaata aaattcctat atagggttga gaacgagatg 300  
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409

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<223>      unsure at all n locations
<400>      33705
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<223>      unsure at all n locations
<400>      33706
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<210> 33707



<211> 479  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33707  
  
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 gtgaaaatga gaatgggtaa atttgagca aactctcact tcaaacaagt ctatatcatc 120  
 aatctaaact tgctcaaact ggttttacgc ctaaaattcc accgaatcaa aatttgactc 180  
 ctcaacacccc aattttttacc ctagacatgg ttcttgccctt cactttgggc atttgttttc 240  
 ctctcttgca cagcccaagc tttctcataa gtcctaaatg acatttcaaa ctaagattaa 300  
 ctcactntaa tctccattta ccactgaatc cagatttggc cttccaaacc ctcanagcat 360  
 cacactnttc cactcacagg actacattct cacttttctaa ccctangtta actctaccct 420  
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<210> 33708  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33708  
  
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 tatgctgaca atagccgaga agcccatgaa tttcttcgag ggcgaggtag gtgtccgcca 180  
 ttgccttggc cttggctaac aatcggngaa gttcttgact cccgttcaag gtaagagcaa 240  
 accgatccat ccacatggtt gcctcttggg gtaaagagtc gatcaccctt cctctagcct 300  
 ctttttccgc gtatatttgg gcataactcg cgcgaccct atgctcgtgg gccgtggcta 360  
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<210> 33709  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33709

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aggtgattaa gccattgtga aacatccatt gaaaccaact aagagcaggt ccatccatgt 180  
aaaatgaggc catggtgatg cgctcctcgt cgagggtgtt atggtagtaa aaaaattggg 240  
agatcttgaa gatccatccc atgggtgtcgt ggctgctaaa acaagggaac cttgagcttg 300  
atatgtgggc gtggatgggt atgagatggt gatgggtgtan gagaaggggt gggctgagtt 360  
ggagctggtg tagttgttcc tgaatggaat caagacgaat gtgaggtcat ggtgggcgtc 420  
aatgaagggtg gattgattct gtgtgaggag gaggatagct tcttctaate gatct 475

<210> 33710  
<211> 388  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 33710

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gataaaaactt gtttcccttt tggattaata actatcttgg tttgcttggc catttgaatc 180  
tgcttttgaa gttctgtttc agaatcgtca tcagattctg aggcaatttt tgcccaagtc 240  
tttntggcta agatggnggt tttggtcagg cccatttcta ggagagctta tagtgtttct 300  
actgaccaag catagtcggc cgatgtttgt ttggcggngt ccagtttgng ggtttcctga 360  
gtggatgact cangtttgac tgagatta 388

<210> 33711  
<211> 416  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 33711

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gctacacacc cctataatag ctaagctcac cccatgacaa aaaaaacatg aaaaatcgaa 180



<210> 33714  
 <211> 341  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33714  
  
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 ttaaagatgc gtttttcact ttaaaacgat tgaacccttt ctttctttct ttcttttttg 180  
 ttaaagatga cagattcaac ggccgaaaca atagacataa actttaaaac aattatataa 240  
 ttatgattgt tttggatata tcaagctcaa acaatntgta gtggcctttc ttttatagaa 300  
 gaacccttca aaagagaaac aaaggatcta catatgtcaa a 341

<210> 33715  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33715  
  
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 aaaagcttac taaggcacct gttctagctc ttcttgagt ttctaaaact tttgaactag 180  
 aatgtgatgc ctctggagtt ggagttggag ttgtattgta acaaggtgga caccctatta 240  
 cttatttttag tgaaaaactt catggtgccca cctcaacca cccacatat gataaaatgc 300  
 tttatgcctt aataagagcc atccaaactt gggaacatta cctttgttcc aaggaattnt 360  
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<210> 33716  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33716  
  
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 ttacaatatg taatttaa at taatttatac taataaaaaa ttgtgttttg aaatatatat 180  
 taatttaagt ttagaattct attgatttaa gttttgaaat atgtacaaca ataataatttt 240  
 aaagcaataa ttgactttgt gatatataga gtgggtatta atcgatcaaa tttgatctaa 300  
 aattatcttg cagtgttttt ctttttagtta aaagttactg taatattaaa gttcaaaata 360  
 agaattttta aaataaaaact gaagatngtt tgccttatat ggtacgagtn ttttttcata 420  
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<210> 33717  
 <211> 312  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33717

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 tagaatggca gagttaagtt catgacatgt ctacagctaa ctcttatggg atgaagatag 180  
 agattaataa atggaataat atccactgca ctataaagag actatactct ctgatctcta 240  
 tataatatat taggacacac catagactaa tgagagatct ctactataca aagattacgt 300  
 tgaccctgtg at 312

<210> 33718  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33718

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 gtcgtttctc cgggagcgac ggcgtccagct cagggacgac gagtatactg attntcagga 180  
 ggaaataggg caccggcggt gggcaccact ggttactcct atggccaagt ttgatccaga 240  
 aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300

325

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tcatcaaagt	tacaacaagt	gttacacatg	cttctattta	tagactacgt	agcttccttg	180
agaagctttc	ttgagaaaac	tttcttgaga	agcttccttg	agaaaacttc	cttgagaagc	240
tagagcttag	ctacacacac	ccctctcata	actaagctca	cctccttgag	aagcttcctt	300
aagaagattc	ctaacgaagc	tagagcttag	ctacacatac	ctctctaata	gctaagctca	360
cctccttgag	atgagaagct	agagcttagc	tacacaccnn	ctataatagc	taagcttacc	420
cccatgacaa	anaacatgan	aatacaaaaa	anagtcctta	ctaganagac	tacttc	475

tcaagcttag	ctacacacca	ccctctcata	actaagctca	cctttttgag	aagccnctt	60
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cctccttgag	atgagaagct	agagcttagc	tacacacccc	ctataatagc	taagctcacc	180
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gccccgaaat	acaaggctaa	aacctatac	tactagaatg	gccaaaatac	aaggcccana	300
cgaaggaaat	acctattcta	atattttaaa	agataagcgg	gctcatactt	agcccatagg	360
ctcgaaatct	accctaaggc	tcatgagaac	cctaggacct	tcccttggat	ctctagccca	420
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<210> 33721  
 <211> 476  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33721  
  
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 tccccaaagca acccgcttga gagttccact aacttgtaaa ttctttttac aagttctaaa 360  
 cacacaaggg acaacccttc tttgtgtag agattttctac aacaagagac tcacagtctc 420  
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<210> 33722  
 <211> 490  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33722  
  
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 tccaagagtc agataggtag aaaacagtgt ttattgtact tttcgggcaa tacgaatgga 360  
 atgtgatgcc attcggacta aagaatgccc cttcagagtt tcanacaatt atgaatgata 420  
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 acaacattga 490

<210> 33723

<211> 246  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33723

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 ttgtatataa cttaccaatt gatcatccgt atgaacctta cngattctca atctataagt 180  
 cccttttaat ttgttttaat attctcttat tgacaatcca tatgacttat atagattgct 240  
 gatcca 246

<210> 33724  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33724

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 ttactcggat gtctgattca gtcccgtcac atatctagat gctcgaaatt gaatgttgat 180  
 gctctgagaa aattcaaacg acaatatctt tttactcgca tgtctgattc agtcccatca 240  
 catatcgaga tgctcgaaat tgaatgttga agctctcagc caattcaaac gacaataact 300  
 ttctaategg atgtctgatt gagttccgta atatatcaag acgctcgaaa ttgaatgttg 360  
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<210> 33725  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33725

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gaaatgacat tttctcccat tgagaactaa aatagactct tcacatcttt ataatactct 180  
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 cacttcaatg cctttttcca ccatatcaga gaaaatngac atcatacacc tctganatgt 300  
 agatagggca tgcacagac cannaggcat gcgcccataat gccagtacac ccaaanggca 360  
 cgtganagta gtcttctctt gatctttgcg atctacaaca ttctgattat agcccagata 420  
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<210> 33726  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33726

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 tcactacatg gatcagtcac aatctgcaaa acaaataaac atggcttcaa ttctagttaa 180  
 gttcatgctt catgcaatgt tgagttttct aaaatctatt aggccagcca aatatttgaa 240  
 gcttactgtg ttccttttgg gcagggctgt gagatttgca ttcttgcata gtggagcata 300  
 aatattgtat aatcaatgt attcaatc ccccccaagt tcctctccgg ctgcatcgca 360  
 cacactntcc tgaatctttg atgatgatga atcacaagct ntgttgagat aagctgctnt 420  
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<210> 33727  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33727

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<210> 33728  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33728

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 aatttctctgt ttcatacttg ttctttttct tgaactatat cctgaattcg cctaagttta 180  
 tatgcaatta taggatttta agagaaaaaa tataacaatg aataacacaa ttttgtaaag 240  
 gattttcttc accaaaaaaa taataattac ctgcgttggg cgagtggcca gctgcctan 300  
 gcgagcatgg ctatggtgaa aaacataaaa aggggagggg tgaagccatt ntcacctat 360  
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<210> 33729  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33729

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 aaatgtggac acttttgtca gacaaattac aagcttatct catggcagac accctaatat 180  
 cagcagttgc aaacaatcac agtttacttg gtgccaactt anagtggaat taaacaagga 240  
 atatacttaa agtgcataaa aagttaaata atgctcaaaa taggcaatcc tagcttaaat 300  
 cttacccttt ccttgatgtc acccanagtc ggcaagtaca acttataaaa ttcctctcta 360

ctccgcaaga	cctatgaaaa	gatctgngat	ctagctatta	tagaagtctc	cattttaagct	60
attgcatctc	tcactcagta	ttacgatcag	ccgctaaggt	gcttcacgtt	tggggacttt	120
cttctagtac	caactgtgga	agagtttgaa	gagatcttgg	gatgtccgct	aggaggaaga	180
aagccatata	ttttttctgg	gttctatcca	tccatgggtga	gaatagccaa	ggtagtcaaa	240
atctcgggcg	aagaattgga	ccgagtaaaa	caaaatagaa	atgggggtggt	cggaataccg	300
aggaagcact	tggaggagaa	agcgaaggct	ntggcggatc	aagggtgaatg	agctntgttc	360
attgacgtct	tggagctatt	ggtatttgga	gtagtccttt	ntccaaatat	ggatggattg	420
gtggatntag	cagcgatcaa	cgctcttcctt	gcttatcacc	at		462

<210> 33732  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33732

tgcannaatg atagtctcta ccaaagtctc tntccatgtt atatctaaca ttttcagttg 60  
 aatagaaata tgggtgctaac tntaagtggc ctanattagt aaaaggacat gctcccactc 120  
 tgaatgatac ttctcataa aaaacaaacc attcattttg aggaagaaa aggagaacaa 180  
 aataagaaaa agaaatggac agagaaagac actcaggcta aggatgggtac taactaagcc 240  
 tcgggttaaa cagcttgtct ccatgtcaat aactaaacaa ctgtagagga tgtcccattt 300  
 atctaattca tctttgaata gaaatggcat tccctgacct tctagacatc ttcattgagct 360  
 tgactagaaa tctccggttg attatccaag ggcattgtatt gngccataat tgccttattc 420  
 tcagagtcca tatatctctg cagaaaaata tttctcatgt aat 463

<210> 33733  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33733

tattgatctg actatgtttc taattattat aaattgattt atttccagcc tattaattca 60  
 atccttacta tcttaggcaa ggaaattatg gactgaagag aggaactag gactactgga 120  
 tgagttgtta ggaaaacaat gctcagtatt tgaagtcaca ccatgcatac aagtcagcct 180  
 attatgtgtg caacanagac caaaagatag gccagacatg tcattagtgg ttttattgtt 240  
 gaatggtgaa aaattattgc caaaaccaa gactcctggt ttttactctg aaacagatgt 300  
 tacttctgaa gcaaaatctt catcggtaaa tcacatgcta tgctcagtaa atgaacttta 360  
 cattacaatt ttagatgcaa aanaggaaac agaggcaaga aaatgccaag ggttcacctt 420  
 caaatgtggg atatatcaat tatttgagca ttcataacta gtaaaagttg tactatgang 480  
 ctcta 485

<210> 33734  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33734

tgaggaatct tanggaacta ttatagacac tactatttct gtogaattgc acacatgagt 60  
 tgttttacag gtaagggatg aattcattgc aattgggggt taggatgaac atgaataggg 120  
 atccttatag gattaaattg agatttattt taggatgttt attgaattat aattttcttt 180  
 tacaattata aatacaatat ttttttgttt gacggaccaa ttgatgtcct gatgcgaatc 240  
 ggttcataaa attgaatgtt cttgttggtt catatttttg acctatgatt ntgattcatt 300  
 tattttaata tgatagttag aaattatttg aggggtttta ctctccatgt tgtgaanaac 360  
 gttnttgat aactttntat attaagatta tggaatgatg attcacattg tgagtaagt 420  
 acaaattgaa cttgtgatga atgggtgat acatgtgtat tgagat 466

<210> 33735  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33735

tgatgactat ggtgtgttgt gggacttctc caccaatgta gatctttaat tnttggccct 60  
 tacctaacta gccacgatct ttggattggt cttctatctt tatagctcca tagggcttaa 120  
 cgtctttaat agtaaggggg ccactccttc tcaattgtaa ttntcgagaa acaacttta 180  
 tcttgagttg tagagcaata cttgttggtc aggccataat tctttgagga ggatattttt 240  
 ttcataatac ctcttggttc tttctttgta gagcttggtat gattcgatg ccttgagtca 300  
 aagttgagaa acttcatggc tcaatgagct tttatttcta ataccactgg taggtggcat 360  
 tcttnttgt acaccatttg aaatangaa aggccaatgg gtgttttgaa gggtgttcta 420  
 tatgctcaaa ggcaatcatc aa 442

<210> 33736  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 33736

ctcacttagt tatcttccct taagtaatcc tggcttcctc aatgagctct gctcttctta 60  
aataaatcgc tatcttgact tgattataat gactaagcat cataaattca ttacttttaa 120  
tattctctac acaaaactta aatgatatta atgtaataat tattttctca aaaaggaaca 180  
agtatgagaa aatttttaca aatttctata taatttaacc gcaaaatata ttcttaatta 240  
gcagctatca tcagccttct ttatttatat gttgctcaac ttgacaattg ttatccaatg 300  
tgatacttca ccttcatact tanactctaa caatattcat a 341

<210> 33737  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33737

ntctattata cattaagcaa ggttcagtgt ttgcattat aagtttgcct aaattagtg 60  
tgaataacca gtaaccaaag aaaagcagag gtaaaacttt taaagaataa ccaataacca 120  
aagttgtata aagaataagc agaggtgaag aagctaggta ggctctactt ttgaagtgg 180  
tactggttca gtgctgaata accagtaacc aaagttaa atgtccatttac tcttactctg 240  
atgctagttc ataacatgtt atatgtttgt tccttttaca gcctgggaag cctgggaatc 300  
aattcatttg atttaagtag tttatgcatg gaaacgtgtt aaagaatgat aattgaatca 360  
ttnttttatc tagtgatga gcatgtgaaa taacaaacga tgtcact 407

<210> 33738  
<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33738

ntagtggttt ttttattagt cattgacatc tacatattct gagttttagt ctcttccatc 60  
tttgacattc tattaggttg ttgtgtgtg gatgaacctc tatttgaagg accatgacca 120  
cctttataac cttggtaatt ccctttgaaa cgttgtgtg gtcaccttg attctgcata 180

tagtgtactt ccttttccta ttgatagtaa ttggatgttg aacaatgacc attctaataga 240  
 ttaccttcat agaaaccata actaagtact tgttgaactt gatgatgttg tgatttgtga 300  
 gagcttcccg attaaagttg tgcaggaagt tgaccaatct actntgttaa ggctnctaata 360  
 tgttgactta tgagcatgtt ctgaactaga attgaattcg gagtatccaa ctccattatt 420  
 cctttcctgt gaacatgagc cctatcatga tgacctttga tatcactagc t 471

<210> 33739  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33739

tctgtagcta atttgaataa ctccaatcta tgaaccttat taaagaggat tcaattcaac 60  
 tatgctctat tcatgtgtat ttaccattca ctatctaagt gtgtccccta gctaattact 120  
 acataggttt tttttatata ataaaagtgc ccgaaataaa gtaccagtat ggcaaacaaa 180  
 gctaggcaca ttctgatatt tcttgctttg gaatctctat gaacactacg ataaattata 240  
 caacaggagg aatccaggct aaaaggaata gaattcctga aataattatt atgacctttc 300  
 aaaaagtggg ttcttttaca aacgattgaa gatggactag ttgagagctg gctcttgcat 360  
 gatgcatttg gaattacttc aacagcacga tgagcangaa tgattcatcc aaacttgtac 420  
 aagaccttaa canatcacag acatgtgtgc gt 452

<210> 33740  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33740

ntgngataaa aatgggtcatt gaccaatctc tattctttga cttgacccaa ttatctagt 60  
 aaggtgaact tgacacaaac ctttgggata aagcttttta ttctcacctc gaaaaagctt 120  
 taactaatc agaataaaca agcaatttca aagacataaa aggagtgaga tttgagttct 180  
 gaaatgctg aatgcattca aaactctcat tggaaaagaa atccatgtct atgaatttag 240  
 gatcgataat ggaacgagag gagaaaaggt ttgtgtaccg tatccgttgt tcttctgatg 300

agaacagcaa ggaagaggaa atggaggagg gaatctatgt ttcctgagcc tcgaagtgcc 360  
gctggcttcg actcgaagaa cccttggtgct nnttttatgg ttccctcatt tgagagagtt 420  
atntgaaatt tcaatcggtt aaagtgatag agaatg 456

<210> 33741  
<211> 463  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 33741

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aaggctattg tgcaagcaat caatggggca aaacacacca aatgattata atgatggatg 120  
gctcaaattc tcacaaaggt aaaatcatca ctttcaaatt gagctttcaa aactatcatg 180  
acatgtagag aagaatcaag gatttcaagt cacaaaatgt caagaacttt tattttcaaa 240  
acaattaccc atttcttgaa catatcctat aattcaaaga aaaacatgca aagtcgtacg 300  
tgcacacaaa attgacccan aatattaaac taaaaatccg acgaaactaa caacattaac 360  
aaattaacac aactaacana ttaacaaaac catcaaaact agcanaacca aagaacactt 420  
ccccccatac ttaaacaaca cattgtcctc aatgtagcac aat 463

<210> 33742  
<211> 489  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 33742

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tctatctgnn gectcaagtt tggaagctga ttaactatcg aatgaataat agatagatag 120  
gtgcttgtcc cccgaccatc tcttaciaag tcaataataa tggtgccttt atattgtttg 180  
ttgctagagt tattcattta tttatgctta caagttacaa catattgaat actaatgtca 240  
ctctcgagat atatcctcgt taagattgta taaaaaatg ctaaaaaaaa attatatgat 300  
cttatacgaa ggtcaatgcy ttaaataatt cgatattcat aagaataatc ttatcactca 360  
atacatatat agtcatatct cattcaaaca gaattaccta acactgtaat ctataccaaa 420



aaaatatggt gcagaaacaa attacgaaat ttagttcttt atgtaaagt agcattatgc 480  
tatttaata 489

<210> 33743  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33743

caagcttcgg aagaaagtga tgacgtacaa gccctaaagg catatcttga aagagccctg 60  
gtagtcaaag agaagttcaa gtccatagcc atcacagtct gaagagagta tgatgaacta 120  
agggacgtca atatggccat cgatgaagcc ttggaatgag aaaccaagat agccccgacag 180  
gaaaaacacg accaacacaa gttntgaggg gctttatagg gcagcaatag tgagctcaag 240  
ctccgaaaag gtgaaaggaa tcatcacggg tcaaaggcat gatcttgaan gacgagctan 300  
aggcttgcc taccgtcgaa agaaatttgt cccaacagtt aagcgagact gaagggaata 360  
tgtgggcat catcgatgag tgcaaagaga agttaaact agcggcgact cacaag 416

<210> 33744  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33744

gctcctgtgc cttcctccac catgtctaac cccacacctt tttctcacca ctccaccttt 60  
ggtcctgcaa aaacctgggt cgccccatca ccgtctgagg accccaccgg tgccctgttc 120  
aaactcactc agacgggttc agtgccaaca tacctgaagg agttcgaaga cttggctatt 180  
agaattattg gcttgatggc ccccttcttg ttgagttgct tcatctcngg tttgacaccg 240  
gagatccgcc gcgcagtcca ggcccatcag cctatgactg tggaccaggc caccggcctc 300  
gcgaagctct aggagcagaa gctgtcggac tttcgtccac cgtctcgttc gcgtccaccg 360  
ccactggccc ctcttcttt gtgttccaac ctgcttccac cgctcttgcc attgcgacaa 420  
ggagtaccac agagggcatc gntgcgcctc tcggtttctt ctccttatca cggac 475

<210> 33745

<211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33745

gggatattnt nntgaaaatg gttatacaaa aacgatttgt tntantaaga gatgaaagtc 60  
 aatttanaaa aaaacagaat taaaaaact attaatcctt aaaatttcaa tttgataagc 120  
 aaattttattg tctgaacaag tttgaattaa catttttctat ttgaaaactt atactcaaaa 180  
 tattcttact gagattttga aaatataaat ttatttataa tgttataaaa aaaattaaaa 240  
 ttgatctatc aaatgtaatt atgagatgat tttcctatat tttaaattaa tataatatct 300  
 atgcacactn tttattgagt atatgtataa agtaattgac aatctatgac aatgtgatct 360  
 ttnttacatt gtttgtgtat tttaattaaa tntacatatg taatataatt aaacattcta 420  
 caataatnta taataataaa tacttaagaa tgcattaata ctaattaagt tag 473

<210> 33746  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33746

tgcacaatct ataatttaat gatctgctaa tataatatgt attgtagac anttttcgaa 60  
 ggatttactg atccttggtt tgtttttaac taatggagca ggttaaagag ttccatagaa 120  
 gagatgggtt tgaggtagca agtgctgaca agatggctaa gtcatgcatg gtttattttg 180  
 aaatgcatct atccctaagg aaaaaaataa ttacaaaagc ttttaatggt agttatagta 240  
 tctacaagga aactttntgt aaccaggtct attgccttn tgtttgagta actggacatg 300  
 caggtacaat aattgttggt gaagatgaca agggacctga aagaggaatg ccgagcttca 360  
 attctgagtt acccaattcc aattcatggt aaattttgtc tttgcaatag ttcttgata 420  
 ngcttntcat atgtggaana atcttggtca tttgtcaatc a 461

<210> 33747  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 33747

ntaagtggaa aaccatgata tcttcatatc cttaatgtat ttggagcttt ggaattgttt 60  
tgggaataag tgtgggggaa ttttgtttca ctggataaca tgttttgttg gctatgattc 120  
atgatgtatt ttgggccata cttgatgtac attttatatt ggtaaagtgt tggacatgct 180  
aatgagatg ctatttctca naggctacag agcaaaaaaa aaaaatcgaa agaaaaagaa 240  
aagcaataaa gttgagtga taagatctta aatggcaaaa gaatgattag actcttggtt 300  
ctattcttta tgtttanaat ttatcttttag ctctttttat tcntttttca tttttttctt 360  
aatatgcact tattcccat t 381

<210> 33748  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33748

tcaaccact gataatagga catagactaa aatacagttg gtagtattnt taggaattca 60  
attgatatat gatagtggtc aataaacata tatgatttct aanagcttac atgttgacat 120  
tgactattca gtttatacct atataaatta tctaattttg gtgagggtt gatgttgaat 180  
taaaaaaac taacggaaga tgtaaaaaat gaaagttttc ttagccaaaa aaagaagtaa 240  
tccttaatag catgtagaaa tgtgggtttt ctgtctccga ccgagtttgt tttcttctaa 300  
ttggatcaaa atattttaac aaaaattgca ttntgtgcac attcatttat aatatgtaa 360  
ataaataaat aaatttaagt ctttgcacac attnttcagt cattnttttt caatgtccct 420  
tatntttta 429

<210> 33749  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33749

tatgactcgg tcaattgaga attcttgatt tacatgtttg gaagattgag attcaatgag 60  
atatgggtca aatggattaa ggggtgcttg atgtctacta nggtatcaat ctttggtta 120

ggaagcccaa tgttgaatt tatggtatca aaaggattga gacaaggaga tcccttagat 180  
cccttcttgt tcaatgtggt tgtggaaggc ttatgtgggt tgatgaggaa agcattagac 240  
aaaaaattag attctagttt caatgtgggg aacaaaggag tgaagataaa tacccttcaa 300  
taggaggaca acacaatctt catgggagag gctaccttgg ataatgtcct aaccatcaaa 360  
agcattctnt gatgc 375

<210> 33750  
<211> 445  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 33750

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ttaatctttg attatgaaga tcattntgtg aaaagtgtg ttatgattct ctcttgagtt 120  
caagaagaca ctcattcatt taagcacggt tcttgcaaag gattgatcgg gttgtgtcta 180  
tcgttgactn tattttttcg tgtggtttac accctattag tttgtgcatg aattactgaa 240  
ggcatgctgg aataggtttt tctagtttgg gctaagggtta ggtttctctt aagttcttat 300  
tcacaaagga ccctanggtt aggtacctta gtctcttttt tgggggtagg aactgagatt 360  
gcttgtgatg gtttgaaga attctatatg gatagtgaan atctaattcg ggtttgata 420  
aataactgga tagcttctct aatat 445

<210> 33751  
<211> 462  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 33751

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ggccttgatt ttctcatttc taccaactac aaaacctaag aaaactatat tatctacaca 120  
aaaggtagac ttctctatat ttgcatagag ggtgtttttc ctaaggactg aaagaacttg 180  
cctgagatgt cctaagtgat catctangct cctactgtac actaaaatat catcaaaata 240  
aacaactaca aatctacctt agatccctta agacatgggt cataagcctc ataaagggtgc 300

ttggtgcatt agtgagccca aaaggcatcc ctagccattc atacaaacca nacttgggtct 360  
 tgaaagcggn tntctactca tcaccctttt tcctcctgat ttggtgataa ccacttttaa 420  
 gatcaatttt tgaaaagata tntgcaccat gcaacccatc aa 462

<210> 33752  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33752

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 gcatcactag aaacacggct aggagactct tgaaagatta gactagggat gcagaagaag 120  
 gccttagggg tctcatgagc cttaggatag attctgggcc catggactaa gtatgagcct 180  
 acttatcttt gtacaaatta gattatgggg tattgctagg ggcaccacgc aacattactg 240  
 gtgcacccaa caattnttta gaattcccaa aatacccatc accgtatttt tttctacaaa 300  
 aagttgggtt atttcattnt tgtttacatt gttgctttct ttgtttctcc atggtagtgc 360  
 tgtgcggtat ttggagcttt gagagagttt anggtgttgt tgcgaatcgg caagtgtacc 420  
 agatcgaca agtagtataa aatggtaaga atcgagtatc gaactctcgg ngaacttg 478

<210> 33753  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33753

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 gccccacatt atttccatga cacaaatgca aaaaatgatg atttggaat tttatgcaaa 120  
 actggtcatg catgcgccta tgccgacgct caagtgtcaa atttttatgg tcatgtgatg 180  
 ctagggctca cgattcattt cctctattct agtcaaccca atatttccaa aatatgttct 240  
 tttatcaatt tgtgcattcc tccaagtcca tttcgggcgt ccgngaaaat tttcacagca 300  
 ttcacccttc aggtgtagac acgttttttc ttcaaaaatc gggtatgatc aatgaatttt 360  
 ttttcaaaga aaagttggaa atcatctctt ttcaaaagca tgctgatttt tagctagaca 420

acttattttc tc

432

<210> 33754  
<211> 477  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 33754

tectcttgaa cccttaccac ccactctgtc atcatgccga tacttaagaa ggccaacagg 60  
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aacaatagat gcttctggat gatatagatt ctttgtatac ccttttaaga tcttcatgta 180  
tcgctcanac gggtagatcc accgcanata aacaggacca caacatttga tttgtgtgac 240  
cagatgcata atcaagtga tcatgatgtc aaagaaagca gggggaaaat acatctctaa 300  
ctggcacagt ataattgagg cctcattntc caactcatca aacttgacag gatcaacgac 360  
tntgctacat atggcatgga agaaaaagca caggcgagtt atggctaacc tgacttttgt 420  
tggcaagatg tctcgtataa ccacggctaa caattgggtgc atgagcatgt ggtaatc 477

<210> 33755  
<211> 451  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 33755

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cagattcagg cacataatat atcgagacgc tngaaattaa ataacggaag ctgtcgagaa 120  
attcaaagtc tcattacttt tcaactcggag gtccgagtcg ggcgcataat atactgagat 180  
gtcgaagatt gaacaacgga agctctcgag aaattcaaag gggtcataact tttgacacgg 240  
aggtcagctt caggcgcata atatattgag acgctcgaaa ttgaacaaca gaagctctcg 300  
agaaattcaa atggtcataa cttttgaccc gaaagtcaga ttcaggcgca taatatatcg 360  
agacgctcga aattgagcaa cggaagctct cgagaaattc acatagccat aactnttcac 420  
tcggatgtca gattcaagcg cataatatat c 451

<210> 33756  
 <211> 459  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33756  
  
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 gacaattctc cacatccaca aatcacgtat aaaccaccca tcccctgttg cccacctcca 120  
 actgagctca cgtactccca cgtagccctt atcctcgttc ctctcaacgc cgggtcccca 180  
 tcaatcctct caagctccca caacatccaa gaaattcaac atcccatcat cacaaactaa 240  
 caaaaccaag caaaacaggg caaaggcaga aactctgccc aaaacacaac tcanaatcac 300  
 agctttttcac atacaaatac cccagtaaaa tttccttcat tccaattcgt taaccgttgg 360  
 atcgactcga anattntact aggagtctct agtacataag tctacattnt gaccgttggg 420  
 atctgctagc anacatttag aactcattct gtactactc 459

<210> 33757  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33757  
  
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 tacgatacctt tttctcacat cttgactgac tcggctatat catagcaaga gtgagtgaca 120  
 agtttagccat aatcgggggg aaggcgcaga acaagagatt tgagctgtga acaagcaaaa 180  
 caaggaccaa cacctgctaa agttgggtgaa tatttgacta gagagttggc caaagttggt 240  
 gtatatatct ataccgcagc tcttcaaagt tccacgaaat attgtctatc gaaatagacc 300  
 tacggagtgg aagaagacca accaaccatt cagaaattca gataaaacaa gatatgccaa 360  
 tcgccaagta aaacttgcag tacacgaata aattctctga agacaacnac tatttatata 420  
 cgacatctag agtttgcaac ccatactcat canataagaa tatatactct c 471

<210> 33758  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
 <400>        33758  
  
 tgtctccaca tctctatctt cccatntatt ntctttatcg actctccaac tcggactata    60  
 tcctcctaaa atgcatgcac tgaggcactg actcttacat atgctcagta aacacatcca    120  
 agaccagggc aaaatgctag gagctcaaaa ttgaccctta acagaattta agtaatcctt    180  
 tgacaaccct tgatgcaaag ctatagttgt atgaaaaact gtcattatca gaaaattata    240  
 ataggatagt caaatatcct ctgttttagtt ntgggttgaa cttgctactt agtttggtga    300  
 aattactgac catgacatct tgcttggtat taatgtttat agaananaat gataagtga    360  
 atttcatttc cagaagttgt ctanaattct caaatntgtc ttccatgttn tactcagttc    420  
 ttcaacttct gtaacaatga taaactntta atctcat                                457

<210>        33759  
 <211>        254  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        33759  
  
 cagcctgaat ggcgaaatggc gcctgatgcg gtattttctc cttacgcac tcgtgcggtat    60  
 ttcacaccgc atatggtgca ctctcagtac aatctgctct gatgccgcat agttaagcca    120  
 gccccgacac ccgccaacac ccgctgacgc gaacccttg cggnccgcatc gaatataact    180  
 atccttgatg tatgctagtc cgacgtaatc aagatgagct cggcttccat cgtcatcgac    240  
 ggcgataaca gacg    254

<210>        33760  
 <211>        460  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        33760  
  
 ntgcaagtaa ttgtaacatt aatattgtgg caacctatca ttcctataga taagccgcta    60  
 atggaaaaga cagacgagtg tggtttctga ctattaatct ttctctgtca tgatcagtaa    120  
 tgtaatatgt ttgtataatg gtttatttcg tggaaatcac aattatttaa gcagaataat    180



tttttatagt ttaaagact aattattcat ttattaattt aactaacatt anggtgagaa 240  
 ttaagataaa tgtgatgcan aaagcaacat atatctaaca caagctgcta ttattatttt 300  
 tatatataaa aaaaacactg ctattagatc atgctggccc attttcaata tgagtttgct 360  
 ttagtcagtg aatcctcctg tatgagtcct tgttcaagcg tccacttcat aagtaatcat 420  
 gtcattttct ttcaccattg gtacgagtta gtctttccct 460

<210> 33761  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33761

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 gtctataaca atagttnttg ttagtataat ataataataa tatgatatga agaataataa 120  
 tgtataaatg aattacaaat tagaaattac aaatctgtat taagtattac cattagtagc 180  
 tgaacgttgt ctttttagtt gttgtaaaat agttttccta cgcttccttc gttcaacata 240  
 tttgtccatg agtagttcga tttctgcaac aattggctta taattgctaa acaacaccaa 300  
 aatcaaagt tgaaactgag ttaaataagt tgctgtaata ggttgacttt gaaatgatac 360  
 caacattata gttatttgca tttgcatgag cgaagtaaga gatatgtatt tgcaatcgaa 420  
 aa 422

<210> 33762  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33762

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 ccctgtcaga tacaatacta gaaggaattc catgcaacct tattacttcc ttgatgtaca 120  
 actccactag cttctccatt ctataacttca tattcactgg gataaaatga gcagatttgg 180  
 tgagtcgatc tactataacc cacacagcat catgtccacg actagtcttg ggtaaactag 240  
 atacaaaatc catagatatg ctctccatt tccattctgg aatttccaat ggcttcaatt 300

ctcttgatgg tgcgtggtgc tcaaccttag ccttttgaca tgtcaaacaat cttgctacat 360  
 attcagctac atctttcttc atgccatgcc accaaaaact tctcttcaaa tcttggacat 420  
 cttagtcatt cctggatgga aact 444

<210> 33763  
 <211> 109  
 <212> DNA  
 <213> Glycine max

<400> 33763

agccctttca ttttattaga tgtcgctcgt catgaaattg gtcgatgcaa aattcgacat 60  
 tgggtcatac ataactaaaa ctgatgatct aagacctcaa tctaagatt 109

<210> 33764  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33764

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 gctacatctc tagttgtcat tgcataaatg tcaaaactttc taatattaac aagatgattt 120  
 atacttatag catcttctgc ataaaaacca ccacttcttc cacatctaata actatcaaaa 180  
 tcataatcct cttccacett atactcaatc gactttctcat cttccttatt gtcattgtca 240  
 tcactttcaa ctntatcttc tccatcttna tgcataaata cattaccata cgcatacccc 300  
 aacacataaa acgaagctcc caaatcgccg aataaccctt ctctactat tatgnectnc 360  
 aaaccctaca aaataacaca tttcaaaaaca taaataaata catagc 406

<210> 33765  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33765

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 gatggctact tgcacacaca tntgaggagt gtgcatttgt tactcttaac gaaagaatcg 120

ccattccctt ctccttgaa tagctcctcg ctgcttcttt ctttgtctgg accaaaaacg 180  
 taatntgctt tgctaaatct tacaagtttc ctttacattt tccattttgt ctattatgcg 240  
 ttaataactt attgattaat ttgcactgat ttgatcatgg ggacatgtat taaacgatgt 300  
 ggattacata gttatatatc ccatatcgac ggtattataa catatgacga tttatgctgt 360  
 ttaagacact aaccatattg attatacgta tagcatagaa cactatcatt attcgaattc 420  
 cggaccacga tgcacatacc tcccttatat acatcactaa tctacttggt ttaactatta 480  
 catg 484

<210> 33766  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33766

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 acagacaaca atgcttgaag aacatcaaaa attgattaca gatctgcgaa cacaaaagga 180  
 tgatgcacac aacgaacatt caaaaacact gcaacgcaag ggggattcac tgcgaaagaa 240  
 aaagtgcaca gacnacaaat ttaacaaatt caatctccat tttctattga agtccagaat 300  
 gagagaatct ctgaccacta tcatcacgag taactcgtgt tcacaaacag tttttacaac 360  
 atatgtctta cgaggactct gtcatgttat taatacagat a 401

<210> 33767  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <400> 33767

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 cctcacgaag ctttttttgt ttgtctacat cccacttttt tcatccttct atccatctct 180  
 tgtttcttgc attgtgaacc aatggtacat gcacaacctt gacctattga tgacttggtg 240  
 ttaaacttac aagacaatca tatttcgaat caagtgtgag aaggccaaga gagaatgatt 300

tgtctaaggt ataatactat ttgggctttt acacacttag atcggataga taattgtgtc 360  
aaagacctaa tcgctgtagc tgattctgct catgttataa atgctggaaa aattgatatt 420  
aa 422

<210> 33768  
<211> 230  
<212> DNA  
<213> Glycine max

<400> 33768

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ttcgacaatc tgcaaagggt gaaatgcatt gcgcattcct gccaatcca atgacactgg 120  
cttgatacga caaaaatagt tactaaatat gattttttagc tactcaaaaa ctctcataac 180  
tagcatatct actgaaaatt gatcacaacg tgaacattga gaactttggt 230

<210> 33769  
<211> 458  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33769

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tggtgcctcc cctctcctct tctcctttgc cttccgctgc atctccatag tgtaaaatca 120  
ccattgaagg acctcattga agctcaaaga tccagcctcc atagcagctc cacaagcaag 180  
cttccatcaa aatggctttg ggatggtagc ctcagatgac tcctcctcca tatgctgagg 240  
tacctgngct gtgggacctt cgtcttcctt gtgaagagaa ngttgggtcc caggccaggc 300  
taccatctca ttaaactggt ctactgaagg gatagagttt tgagggtgcca ccatatataa 360  
acattgcagt aaaatgatct gtccctgatg aatgctctga agcatagtgt cacaacctac 420  
ccttcngcgg gagggcgaca cgaaggctca cgggtgca 458

<210> 33770  
<211> 492  
<212> DNA  
<213> Glycine max

[illegible]

<210>	33771
<211>	364
<212>	DNA
<213>	Glycine max

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taaatagtcc	ttacacccat	cgccataact	tataatatca	taaatgaaaa	ggattatcaa	120
cacccattta	catattttaga	aaaggatcta	gtaaaaacaa	tcacttttcc	attcattgga	180
gacatattta	aattacactt	agacatttcc	ttatgctttg	ttgaattaca	caaaatattt	240
ttatttttact	cttacaatga	cttctcttat	agatggatac	atgtgtaata	tttnttacac	300
cttaaagaga	gagagtgtat	aacgcaaaaa	gaacagtcaa	tatactgttt	ttaaaacaat	360
tata						364

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<223>      unsure at all n locations
<400>      33772
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14066

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 tggcgagcgg aggaacgccc cggcatttac gcaacgagca taatgtaaac ctttacagtt 180  
 ttaacagctc tatagttggg cctaagcttt acagtttcta ttttcgtaag gctttgtgtc 240  
 ttttgcctt gaatttataa tacaaggatc tttcttcatt tgccttggn ctctacccat 300  
 tctcattcat t 311

<210> 33773  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 33773  
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 ccaggcatca gactcctgta aactcacatt tgtctccaac tgtctgaatt aaagaactcc 120  
 aatccatcac cacttggccc agccatttga tctttctttc tactacactt taaatttggg 180  
 ataactttat tcaactatga ttatatcaga acctaacacg ttttgcttca cttcaccaaa 240  
 ttgatactcc cttgctttct cctc 264

<210> 33774  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33774

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 aatgagctgg ttgcaaaaat tggcaaaactg actattcacc taccatgca acttcaatac 120  
 cacctaataga tcatgtctat ttggattttg aatccccatc accataaaca gatccacac 180  
 ttgctgggct ttaatacaac cttcgcaaca atagcccata tgaatgcctt tccacataa 240  
 attttgaacg ttgagcacc atgctcaaga ccttggtcgc caaccaacc acataccata 300  
 taccacatct cctcaaattt gatatgcctt tgttgggtca aaacattatc aactacgtcc 360  
 aattatgaag tgactccttt aactagcatc aagtccttgg tagtcacttt tctatcca 418

<210> 33775

<211> 358  
 <212> DNA  
 <213> Glycine max  
 <400> 33775  
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 ccggagcgtc tagtggtcat agccgatctt gacgagctta tacgctccta cttaagacat 120  
 tcctcggata agttatgaac ataagaaatt ctaccgacc gccggagtta tattatccgc 180  
 gaacttctgt gagaatcact tccgaccgac ctggcgtgcc gtagccacga cggtaagcat 240  
 ttagaggaac ctactagtgt aataatcaaa cagacatctt ttagtaaaat cccgcggaga 300  
 atcaatcgga cgatgtctct gtgcgatttc atattcttaa acgaattgat gaataact 358

<210> 33776  
 <211> 488  
 <212> DNA  
 <213> Glycine max  
 <400> 33776  
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 ttattgctg tatgcacgct ttgtaatggc cgagacatgg atggctcgat cccttcgagc 120  
 tctaaccaaa atcatgcctt cgcttgccaa gaaaagatgt gatattacag cggtagaacg 180  
 tgactaatct atagcatgta ggactattta gtaccctaaa catgtcgacc tggctggcag 240  
 ggctccaca tagcataacg gagataaac atctccattt ttgacatcac tacaacgaaa 300  
 gatgtggctg cggtaaaacc tatttcacat tctctaaca taccacatc ttccacattt 360  
 cattatccga gacaccata atcctgcaaa actgcatcac tgacctttca tacgctctc 420  
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 cgcttcg 488

<210> 33777  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33777  
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[illegible]

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<223>      unsure at all n locations
<400>      33778
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<210>	33779
<211>	430
<212>	DNA
<213>	Glycine max

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accagtggga	cattactctt	aaaacaaaa	tggcatataa	cctcctcca	caaatacaaa	120
catcaatgta	aatttagagc	aagcttatgc	gcataatttc	ttacaatcgt	tctcttgcac	180
aagacaaaa	aaaaatgcac	ccatatacaa	tcaaggcagc	ttcgttacct	agattattta	240
cacgtacttc	caaagtgtat	ttgttaacta	catcacacac	atcttcttgg	ctaaattcac	300



atacatgcat actctaagca ttttngngta ccacaaattg cacctgtgca catcttgga 360  
 tttctaatac ctatacatc acaaacttca tgatgaatct tgactatcta cacaataaag 420  
 tgctacatct 430

<210> 33780  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 33780  
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 caggagaaag acgaaaggag acaaggagaa aattcccaat caaagagtgg gagaaagcac 120  
 ataaaaagac tagacagaaa gttcccaatc aaagagtggg agacagcaca aacgaaaaga 180  
 aggaaaattc ccaaatacaa gagtacgaac acgaaaagaa aggagagaca attcccgatc 240  
 aatgatcgaa agacaacaga agaaatatgc ataacggtct tttacaccag accacatctg 300  
 aacaaatata gagttactac caagtagaca caaaagaagg cggggaaaac catgacctga 360  
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<210> 33781  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33781

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 gaggagctgg agtggatgat gnaaggatct catctgctct agccctttnt ctcgatgcca 120  
 tctgtgacta aaaagaactc anaattgctt agaccaaatt tatttaagtt taaaaataga 180  
 tgggtgctta gcgggatata gattgctcag cgcgccctta gaaatatagc atatcgactt 240  
 aacgaaatag tgtgtgcttc agcctaatac acaccgcaac aaatatgtgc taagctcagt 300  
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 agccagacac gcttagccca atgatttccg taacgaaatg 400

<210> 33782

<211> 364  
 <212> DNA  
 <213> Glycine max

<400> 33782

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tgattaggta tccctgatgt tttcaatgag tttagaaatt tacgtgtcag taatccgaaa 120
gtaggattga gtagttcatc ttatttatca atgttatcag tgctacaata ctctttttcg 180
tcattgggta tcaatgataa gacaataatt tattttgtca acaatatctt ttttagaggc 240
aagaacaact cttttttgca agtaatctgc gttgctatag ttatgtgtca agttgggata 300
tgttgcatca acaattgcct ggataggatc agtatagtcc tttataagga actcatctgg 360
gatg 364
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<210> 33783  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33783

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accatgcatt aggtaccatg ttcaattatt ttgtttttta gtgaaacggg tttatgatcc 120
caacatgggt ggctcgtggt gcctaacaca tgaaactaag aatgtagtgt gaagtttcac 180
gcttccccct tttttgtttt tgttttgtag agggaaaacgc aaggatgagc aaacatgaaa 240
acaaatggta tgcaattttg cagatcaaaa agtttggtga acgcatatgc atgatgatgc 300
catgactcat gcaaaatgtg aggctggaat atgataacgg acaaatgcag gatatgtcca 360
ttatgatggt atgaagagat gcttatgcga tgcatgatat gaatgcattt tacggaca 418
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<210> 33784  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33784

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aaaatgcacc catatacaat caaggcagct tcgttaccta gattatttac atgtacttcc 120  
aaggtgtatt tattacttac atcacacaca tctccttggc taaatttaca tacatgcata 180  
ctcaaagcat tttgggggtac caaaaattgc acatgtgcac atcttggtat ttctaatacc 240  
tatacataca caaacttcat gatgaatatc gactatctac acaataaagt gctacatttc 300  
atgctctttt caagtttttg ctacctaaag ccgcatgcaa attcaagtat attttccttt 360  
gctgactaan attgtagtaa aagggtatata ttctttctgt aatgtatttt ctttacataa 420  
catg 424

<210> 33785  
<211> 466  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 33785

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cccatgcaag ttgaaagcct tggaggaaag aggtatgcct atgttggtgt ggatgatttc 120  
tccagattta cctgggtcaa ctttatcaga gagaaatcag acacctttga agtattcaaa 180  
gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat tangagtgcac 240  
catggcagag agtttgaaaa cagtaagttt actaaattct gcacatctga aggcatact 300  
catgagttct ctgcagccat tacaccacaa caaaatggca tagttgaaag gaaaaacagg 360  
actttgcagg aagctgctan ggcatgctt catgccanag aacttccta taatctctgg 420  
gctgaagcca tgaacacagc atgctatatn cacaacagag tcacac 466

<210> 33786  
<211> 466  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 33786

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cggctttgag gcttgagcat tcgatgaaca cgnacctgta gtcgatgaga ggcagctca 120  
tgcagtgaa gaaacttatc taactgagaa ttgtgtctat agacttgcca tgatgatgct 180

tgatgcacga catatcctac ttacagtatg acagatgacc tcagggatga tccatgataa 240  
 atgccgctca tgggagcggg gcatgttacc gactagactt cgcgaggctt cttgcagctt 300  
 taccttgatc tctaagctct cgcctttctg atgtccacca tgttgctcat gtcgctaatac 360  
 tcatggcgct cgcagtatct ctaacatata ctaggttata gtgctgagac gtataataac 420  
 aatcctataa gctgtcatga cgtatatcga agatgactac acctcg 466

<210> 33787  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33787

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 atggcgctn ctctcacctc ttctcctttg tcttccgctg catctccatg gtggaaaatc 120  
 accattacaa gacctcattg aagctcaaag attcagcctt cataaaagcc ccacaagcaa 180  
 gcttccatca cttatcatat tgccttgat gtcttatgca tcatatcata ttgtcattgt 240  
 gaaaacaact tttcccgaca aaattttctg tgtaagtcgc tgcttacaag tccattgcta 300  
 aaagtttcta caacgacatt acaatttggt gacattactt atgttttaac aatgataatt 360  
 atcgccatta ttttcacaca attgttgcta ccataagtaa tttgtagtag ccattgaagt 420  
 tattgttgta tttacaggcc ttaacaacta ac 452

<210> 33788  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33788

agcatctent acttcgacat caatggcgga caggacagcg gtgcttacct cgacggtcga 60  
 cgctgacgat gatccctcga cgggtggacgg cgcgctcgct ggctcgcgcg ctctcttca 120  
 ccgcggtcgc cggcttcggg ctgctcgcgc ttcgctgatc gcggtgacg aagaacacga 180  
 agaatcaaac ggagaacaac aaaaaggcac cgcgaggaag aagaagaatg gctctgggga 240  
 agaatcaaac gctccgcgg 259

<210> 33789  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33789

actcagcttt atcctggctt ctatgggtgt gagcttgtct ttactctctt tttcttgaag 60  
 cgacgtctcc aatcatcttt cttcttatcc attccactga cattgatctt caagaagaaa 120  
 aggactccat tgatgaagaa gatccacggc ctacaagctc cacatggagc tacatcataa 180  
 aaagctatgt ctttaagctca tgtgctactt catcgccatc cgatacctaa agtagtgaaa 240  
 cccctttgtg acaacaaaat atgcttttgt tgagaataat tgttgaggag ttagccctca 300  
 cagtaatgga taaccacaaa ttggtacttg cgagatgatc ttaagggttg ataaccttgg 360  
 agggagcgac tntaagtcac gacgatagtt cacatagatg acttggtaac cctgacaaat 420  
 atataagcca tcctcagatg gtgagagccg tca 453

<210> 33790  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 33790

agctttataa ctttaattaa aatgtccaca aactgctggt aatcgatacc atatatgtga 60  
 atcgatacac aggcaatttg aattcaaatt taatagctgt tgtaaatacca gttctggcca 120  
 ttggcaatcg attacatcct ctggtaatcg actaccagag agtaaatttg tttgacacag 180  
 actttttaac ttagatttct tggcccaacc ttttgctact ccaattggaa ttcacttctt 240  
 atctaataa ccttttctaa gactctagag actgtcttga tcatccatct tgaatatctt 300  
 aactcctttg cttgaataaa ctttg 325

<210> 33791  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33791

agctntacct tagtttcggt gcttacagaa naataaaata attcctatgg ttggaggatt 60  
 gtgaaatgac atttagaaaag ttaaaggagt ttctttccac tctcctatc ttgacaaagc 120  
 ccaagtcagg gttgcccatt ataaaatact tgtegggtctt cgagcatgtc gtcagctcag 180  
 ttctagtaca ggaatttgga gttgaataaa agccaaatta ttttgtgaac cgggtgcctt 240  
 ttggtttcga gattaggtat caaagttaga gaaattggca ttggcagtag ggatcacagc 300  
 tagaaagtta aagcattatt ttcatagtta cccaattata atttgaacca attaatttat 360  
 caaaacaaat tntacagaaa caggatcttg ttgatcagat gatgaagtgg ttgttgaact 420  
 ctcagagttt ggtatatcgt ttgaaa 446

<210> 33792  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33792

taagcttttaa gcagattnta gtaatgaggg actagactag aattaaaata acttaatgcc 60  
 attaacctat ggaattaaca aaaacttaat ggctgagtggt aactgacatt gcggcaacca 120  
 agagtcaccc ccaacagcca acaagtcagc caccatttgg tctcccaaaa ggctgatgcc 180  
 taggttgcca attgcgcctt tattacaact tgaactaaac ctaactaaag cccttttagt 240  
 tgatcaaccc ataacatatt attggccacc caactttaca aggattgcgc cattatctag 300  
 acaaaactaaa cactctaaaa ttgagacaag gtgggtgcat ttacgcctcc tccatttgcg 360  
 ccatgataca actcacaacc 380

<210> 33793  
 <211> 346  
 <212> DNA  
 <213> Glycine max  
 <400> 33793

aatcaaaaga tgcaactctt caaatgatct ttgacttatt caaattgggt ctaatttttt 60  
 ctaaaagtta taactcttct aaatgggtcct cttgaccaga catgaagagt ctataaaagc 120  
 aaggctttgt ttttcattgt caatcaatct ttctaact tttcatata atcatttaca 180  
 agccttgaat ctctttgaac ttctttttct tctttgtacc aaaagctttc caaagttttc 240



<210>	33797
<211>	438
<212>	DNA
<213>	Glycine max

ntggcacaca	gctaatacatt	accttcttca	tggaattatg	gtaaacacag	ttctatcaca	60
caataaaaaa	agtgtcatat	aacctgctta	cgtctctct	tgattttggt	cgaagaccat	120
gccattttgg	aattgcatgt	gcactctcta	cataagctgc	atttgttcca	gtaccaacaa	180
tcactccagc	aacaacatcc	tgattgctga	atcttgctct	agctactggt	cgcactgtgt	240
cattaaccta	natcacatca	ccaagttntg	tctctgggtc	aagacattaa	gtaaccagga	300
aatttaaaag	aaaaaaaaatt	gaaactacaa	aactcattga	tctaaattnt	cgcctatata	360
gaaactgaan	natattctca	nagccagact	anaggggaaa	aagaaaacaa	gacaaacagg	420
aagagaagta	cactgact					438

<210>	33798
<211>	486
<212>	DNA
<213>	Glycine max

nacgacgcgn tgacgctgag gcntcttgan actttgcaan ccagctcgta cccgggatcc 60  
tcagagtaac ctgcagcatt cagcttttcc cctattttta taaggagggg gagaattgaa 120  
gtggactctg gtccatccca ctgagccctt gtctctgtct cgaacttggt tagaaacatc 180  
gtttccgcga agagaagcca agcctatgcc actccgaagc gcttccgtga gcgatcacgc 240



aaaggtagtg acgcgttctt cgacagtatt gattacgact tcctcggcct ctgagcctca 300  
acggcgaagt actctcgacc cggctcttcg agacatctat gtacccgagg tgagtcacac 360  
cgagccccctc gcattttctct atctcgctta gtagagcttt acgatacacc gttgacgcgc 420  
ttacgacacg acattgaagc cgtatctctg ctatcccact aataagatag tgatccaccg 480  
atcgcg 486

<210> 33799  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33799

ggacctataa aactcagctt aagaaaaaat ggcctcagca agcttttatn ttttaaagtt 60  
attcaacaaa ggcctccatc tttatggaga ggggtaccact actggaaaac ccaaatgcaa 120  
atTTTTatcg aggcaataga cttacatatt tgggaagcca tagaaatagg gccttatata 180  
cccaccacag tagacagaat tacaatagat ggaagcacat caagtgaaag cataacaata 240  
caaaaaccta ctgatagatg gtctgaagag gataaaaagat gagtacaata caatttaaaa 300  
gccaaaagta taattacatc tgccctggga atggatgaat atttcacggt ttcaaattgt 360  
aagagtgcta aggaaatgtg ggacactcta caattaacac atgaaggaac aatagatggt 420  
aaaagatcta cgataaacac attaactcat 450

<210> 33800  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33800

ggacctataa aactcagctt tacttggtga ttgtgaagtt ttgaaaaatt atttctgcct 60  
atgccgagta taacattttc tgtttataac ttattgatgt attaattgca ttgatcatca 120  
ctgaaaaatg ttagattttg gtgtctcatt tcttgTTTT ataatgattg ccaggatcac 180  
tattttgatg tgataaccaa catagtgggt ttggttgctg ctgtcctacg tgataaattt 240  
acttggtgga ttgacctat tggcgctatt ttgcttgcac tctacacaat ttcaaattgg 300

tctaaaacag tgcttgaaaa tgctaggctc ctctttctct cttcttattc tgcgtcttat 360  
gctttgttca attacgtact ctatttaa at gatggttacc tcttggnnta gtttccttgg 420  
ttggacaatc agctccacct gaagtc 446

<210> 33801  
<211> 369  
<212> DNA  
<213> Glycine max  
  
<400> 33801

agcttgaata agtagcagca ccacaccctc aacaccttta tgcctattca gatgaaagct 60  
tggttcctttc aaacacgctt ttgagaact acattgaccc aactggtggt tttctttatc 120  
ctacaaagat caaccctcat tatgattcat tcaactcatg tgatgacatt cttccaacta 180  
atgaagaaaa caaactactc ccatgtccag aacgccaaaa gtcctcctac gaggaacaa 240  
aatgtactct tcaactgcaag agtttactaa acacaaatac catccaattt cttacatggg 300  
tttggtgtgc cttatgataa ttgttgttcc ttgcaagcag aggaactgca acagcaactc 360  
ttctatgag 369

<210> 33802  
<211> 437  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 33802

nttatgtctt gctaattgta atagatatta cctatctatt aaagccaagt catggcttaa 60  
ggcctgtatc aatcctattc tcttctaaat catgacaaga atgataacaa caaaactaac 120  
cataatctca tagttatgaa catgatatat tntctttgac agtacatttg tcccccttat 180  
aaaattctct ataacagttg ttgttcatat gggttctgtg gcatgccctt cagaatgctt 240  
ttgcaaccag tcttcaatat tgtatttctt aaggtaggaa tagtgcatac cacttctgag 300  
ttgatctctg ttatcattca caggttntat tcttccagtt agatagttat tcaagtactt 360  
ggttaaggcc ctttggcaag taactgggga gctctctcaa tgcaatatca taattntaag 420  
cagttaatac tatgtga 437

<210> 33803  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<400> 33803

acgccggtgc cttacatcag cctggacgtc ccgcatctct aagcactgac gatgccgctt 60  
 ataaactata tccatattct gtgggtcatt caccttaaaa attcttttat ccatctccta 120  
 tactccctta ttcctatcct attctgaatc actatgacaa atgatattat ataacgtctc 180  
 atgcatgaag aactgcacac ccataacata tattgggcct gattacccat aacctacaac 240  
 ggcgatgtca cccctccacc tccactgtcc cccacgtca ccccatatac cgcgaccctt 300  
 gcgctctcgc ccccccccca cctccctcgc tcccatcccc ccgccaccct cccgttcccg 360  
 tcgctcccag cccaccccca ctcccccccc tccccccctc cacaccctc gccccccccc 420  
 gctccgcacc cttccctccc ccct 445

<210> 33804  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33804

agaactgctt cttcttgant atttgatcca tctctctttt caccactatg aaaccatttt 60  
 caactgttgg caatgacgag ctattatttc tattatttaa aagttcatac tgcaaagagt 120  
 cttggacact acgaagctgt tccaatactt cttgcacaaa ttcaacatct aatccaaatc 180  
 tatctgtctc caaccatttt cccaatgcc a gtagatacc ttccagatca ttgtctgaat 240  
 aaattacatc tgggatgcc a actgaaccaa gagaaccaca aaatttatcc aacgaagtac 300  
 agtatgtatc actttttcca ttccttaa at cccacttate aacatgggta caatagaact 360  
 tgagagttcc tttcagtttt aagatatcct tgcaagcatt aactagcttt tgagaaataa 420  
 ctctc 425

<210> 33805  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33805

agcttttctcg gttccatttc ctgcgaaggc aaacatttgg aaagttagtt ctaccagtgg 60  
 gacactactc ttaaaacaaa aatggcatac aacctcctcc cataaataca aacatcaatg 120  
 taaatttaga gcaagcttat ggcgcctatct ccttacgaac gttcacttgc acaagacatc 180  
 ctattaacta agacaaatgc acccatatac aatcaaggca gcttccttac ctagattatt 240  
 tacatgtact tccaaggtgt atttggttatt tacatcacca cgctctcttg gctaaatcta 300  
 catacatgca tactcanagc actntgnggt accaaaaatt gcacatgtgc acatcttggt 360  
 atttctaata cctatacata cacacacttc atgatgaatc ttgactatct acacaata 418

<210> 33806  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33806

tgatattgaa agagaanttg ttctacattc tatatttatt gntttgctca tcaacttcaa 60  
 tgagttcttg ttacattggc aaaaaaacat gttcaaattg cattaattgt tattcaattt 120  
 agttgctaatt ttgtctaata ttgttgagc atcatgtaag cactgngata tttttcgaaa 180  
 aagtcaaatt acaatagtga aagaagcatt gcaaaaagga gaaatctcaa gtgagcatga 240  
 cttgaatcaa gagagcagga aacactaaat gaagctcaca ttatggtaca ttacttagtt 300  
 tagtttctct tttttcttcc atgattgatg tgcttgaaat aattgaagaa gatgacataa 360  
 gtttagagca naaggctaaa atatgtgctt tngtaaattc tgtgcaagct tttgaatntg 420  
 ttttcatctt gcacttgatg aaaaatattc t 451

<210> 33807  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 33807

agcttattaa tgccttacc gtttcacatt gagcatgtat gacaccagt actgatatga 60  
 tgtgcaaagc tgggactctt actatccagt tgttataact cacacactct taccttgaca 120

gtggtgggat taagagaaac actatcactt gtgaggactg aagattggcg attattgctt 180  
 gcgatatgtc attcttgcta accatttcat tagacgcgcg tcctattctg ctactttcat 240  
 gatcctatga caactgtgaa cttgagaact gtccaatcca gctctctaca acgcatgccg 300  
 ctatctcatg agtggttgatt gggcaactct ataacttttg cttctgc 347

<210> 33808  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33808

tattggnat gaatcatatc tcattctctg ttttcatgcc ttggatttta tntgtaaatg 60  
 aattaagcag cttgttgaat aatgagtctg ttatttactt catattaatt ttacgtgtca 120  
 tttgctgcag actgattggg aggggtggcta cttcccgctt acgctgcact ttagtgaaga 180  
 ctaccaagc aagcctccaa agtgtaaatt cccacaaggt ttcttccacc ctaatgttta 240  
 tccttctggg actgtttgct tgtctatact taatgaggat agtgtaagta catctctctt 300  
 gataattgca tgactgcttg aaaccaatnt attttttctg atattacatg ctaagcaaac 360  
 agttaagaat tataggttta ttgttctata caggggtgga gaccagccat aacagttaag 420  
 canattcttg tgggcatcca agacttactt g 451

<210> 33809  
 <211> 103  
 <212> DNA  
 <213> Glycine max  
 <400> 33809

agagggtgac tactactgga accccctatt gcttatattc accgccgttg cctatttagc 60  
 tgtctgtgaa gccatagcaa tacggcctca tataccttcc ata 103

<210> 33810  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33810



tcttttccat gctttttaaat acgttgcttc atatcagaat aaagtaagcc tttgcagtct 300  
 caatttcttt ctttatgctc ctttttattg tttaatattt ctgcctactc ttattaaaaa 360  
 aaaacaacaa attggtatct agagctctta tctttaaggg atctgtgagt tgagagaaat 420  
 cacaatggag ggagaaacat catacacagc aagttcacca 460

<210> 33813  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 33813  
 aaagtacata ttacatata tacatatata tatatatata actcagatat gaaaaaattc 60  
 ctccgataaa cttatatat ttttactcga gacaacattt attatacata ctatgaatga 120  
 catgaaaaca attattaaca actaaagaat ccacataaca ttaaataaaa aatacaatta 180  
 tgcttaaact actataaaga ttaacttcag aacatacaaa ataaaaacta atacaaaggt 240  
 ttatttcttg tctatgggac atatagctcg aatttctcgt gatttaggag ctgcagcaac 300  
 tttgcattcc atttg 315

<210> 33814  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33814

tcagttcana gcattgaata attaaatatt tggcatttag cttgtgcaca acacaaggaa 60  
 cttatgcctt tgaaggggaat ggctatagct aaatgggaat ccaaatttaa tttatcaggt 120  
 gctctacact agtgaaccaa atcttcacaa atccctcacc accagtgtga acaaaacatt 180  
 acatcagcgt gtgatgattg ttgatgatta tgcattgcc tcgacaattg tagtatatac 240  
 atgtgactca atcggtagtg tttgattctt ccatttcaat ttacacgttt attgattttc 300  
 ttctttcata atgcgtgtta atcctacctt ctttntgttc tgtagcaag caaaggaaag 360  
 ctaatatact ctntctcttt gttcttttga gaannatggg ggaaacaagt caaccattgt 420  
 gtcaactctt cacaccccat tttac 445

<210> 33815  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33815

tgtaaagctg actatcttca ttccacagtc gattggataa tgaagagatc tacgcctact 60  
 tccatanaat tgaacatcta cccaatcgcg gggctcgata cacacaatac cttgcaaagtg 120  
 cctagtacgg ctgactgaca acaatcaata taacatctct cacaagagtc acatgctcca 180  
 tttcagtttg gattcattgc ttcctttgag ttccgccatac cttcttggtg tacagataac 240  
 tccacattct cagcattgca actttaaaca ataaaatacc cattgtcttt cgtggagacg 300  
 tatattacag cagatcatac aggtgagaca atatagactt aactgaccca acattctata 360  
 gattatacgt ctgttcaaat actcagactt tgacccacac ctcttgtgag accg 414

<210> 33816  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33816

tgtgggtcaag taggttttct caaaagttgt agacattttg tgctcattca tatcttattc 60  
 aattattact gcatgaagtt tcttggtgctgc atattgaatc tgtttggttg atgggtgagat 120  
 gattcttaaa aaaaatgatt ccttgactcc aataccataa atttcgtggt ggataacctt 180  
 gcaaactgaa gagataagtg tcaagtcgta ttattctatc gcgaaacaaa gggtgatact 240  
 ggtttttaaat agcgtttccg caactacaat tgtagtcaca atgtcaaagt attttgattc 300  
 atcataatgc aaccacaacc gtaattgcag ccgcattagt cacagttttc tgcaatataa 360  
 aggttttctg attcaccaca attgcaactg cgaccacgat ngatagtatt agttacttgc 420  
 tgttccctgc cccaatatag ttact 445

<210> 33817  
 <211> 382  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 33817

cacgatgctt ggtagttcga ccatctagac cctttgttgc gcaatcatct gtagaacaaa 60  
tncacatatc catccgaata catgaatgag aaaacgttag ggctcctata tttattacat 120  
tggaatctat ctaatatacc gaaatgatct gtttaataaa atcataaaca tattcccaat 180  
cttagcaagc atatacgaca ctgatcttcg actataccaa ctatgacata gtaactcttt 240  
cactttctca accatatgat ctataacata ctttgcaagc tcacttttga cattacaaac 300  
cactccccac gtgaaagtca agccaccctc tgaaagcgga ccgtgtgtga cacgtactga 360  
acatatggcg ttgccttctc cg 382

<210> 33818  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33818

tctttgagaa aacttccttg agaagctaga gcttagttac acacaccct ctcataacaa 60  
agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctat 120  
acatacctct ctaatagcta agctcacctc cttgagatga gaagctagaa cttagctaca 180  
cacccttat aatagctaag ctacccccca tgacaaanaa catgaaaata caaaaaaaaaa 240  
gtccttacta caaagactac tcanaatgcc ccgaaatata aggctaaaac cctatactac 300  
tagaatggcc aaaatacaag gcccanacga agganaaacc tattctaata ttacaaaaga 360  
taagcgggct cactacttagc ccatgggctc gaaatctacc ctaaagctca tgagaacnct 420  
agggectacn cttggatctc ta 442

<210> 33819  
<211> 335  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33819

agcttcaaga aaattatggc ctcagaanac ttcttatttc cagaaggga ttctatcaat 60  
acacctccaa tctttaatgg agagggttac cactactgga aaanccgaat gcaaattttt 120

attgaggcaa tagatctaaa tatctgggaa gccataaaaa tagggcctta tatacccacc 180  
 acagtagaaa gagttgccat agatggtagt tcatcaagt aaagcataac catagaacaa 240  
 cctagagata gatggtctga agaggataga atacgagtac catacaactt acaagcccaa 300  
 aacataataa catctgccct gcgaatggat gaata 335

<210> 33820  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33820

tgtagcaaat tcaaacccca ttaaatttta actcagatgt acgattaagt cccgcaatat 60  
 aacgagacgc ttgatattga aaacaaaagc tctgagcaaa ttctaacgac aaanatgttt 120  
 tcctcggatg tctgattcag tcccgtata aatcgagccg ctcgtaattg aaaactgaag 180  
 ctccgagaaa attaaaatga caataacttt ttactcggat gtccgatagt gtcccgtagt 240  
 atatcgtgaa actcgacatt gaaaacagaa gctntgagca aattcaaacg acaataactn 300  
 tttactccga tgtccgattg tgtcccgtag tacatcgaga ctctcgtaat tganaacaga 360  
 agctcgtaga gaattcaaac gacaataact ntttactcag atgtccgatt atgtcccgt 420  
 gtatatccat acgctc 436

<210> 33821  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33821

gcgtatgctc aaatcgtcac cagtaaaccg gacactgacg acctccacat cgcttgctaa 60  
 agctgcatgc gcactgctcc actgggcccc acaccataa tctccctcaa cactatgggg 120  
 ccgtgcctcc acacttgac atggcccata tccaacctn tgtctctcgc tcgogatgta 180  
 tatagatata catccacccc cctcccacaa catcccatc ctcatcctaa cagtcttctc 240  
 gagaaccatc caacgagga cacagaatat tat 273

<400> 33822

<210> 33823

<223>        unsure at all n locations

<400> 33823

<210> 33824

<400> 33824

cgcggggtccg tgggcttgat catgatactt gggaacactc gaccgggata ttagagcttt 60  
gcttatgaac ttgactatac atcagtaata cgcggaagttt gacttgcaac tttaccacaa 120  
aacatagtga atccgatata tctttcctat atttagcggt cgtggaaaca tacagtgatg 180

aaggagaact cggtaatcct tctattataa ataatctttg ccccatgaa acagactttt 240  
gacaattgat cttcataccc tgacgctcag acagaaattg cttacatact atccttcacc 300  
aatcttactt gaacacacag tacctctcac agaatacgag atcatcatca aatccagata 360  
agatgacaga taattggacc atgtgtggaa atatgaattg gttegcaagc atcatccctt 420  
ctaatatatt cctaatccat caagccgctc tcatgcaata agag 464

<210> 33825  
<211> 436  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 33825

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atatggccac cgctgaagcc ttggaacgag aaaccattga cgcccgaaag gaagaacacg 180  
tgcaagcaca cgtatgaggg gctatatatg gcaacagtag taagctcatg ctgctaagag 240  
gagataggaa tcatcacggg tcacaggcat gatcttgaag gacgagctaa tggcttacct 300  
taggtcgaaa tgaattctgt cccgacagct aagcgagact gaatggaata tgtgggtccgt 360  
catcgatgag tgctcagaga atctaaatct atcggcgact cagcagcaaa ggctacagga 420  
tgagtacgcc gagaag 436

<210> 33826  
<211> 419  
<212> DNA  
<213> Glycine max  
<400> 33826

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atagtctcaa aagttacatt tcaatctgct aaaaaaaatc acatttcaag aagttcattt 180  
tacgtggaat ttaaaaaataa tgatattggt aggaaatggt ttaaggatac tagtttaaaa 240  
aagttagcaa ataatttatt ttaaaaaaat taaaaattac acttagaagt acatgaatct 300  
atgaaaaatg ttaaatTTta ctctctgtct ctctctttat aaaatatttt tattttacga 360

cacttagtat tatatattct cataagatta aaagtgcacc acgtcattta tcaatgaat 419

<210> 33827  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33827

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atctaaccgt gatgggggta atttgatgat atgagtgaag gtttggttaag gaggaggaaa 180  
cgtgatcagt ggctcctgaa tctaatatcc aggaggtaga gtttgctttt tcgtaagata 240  
gggttatacc tgttgcatcg ttactagagc aagatgaaat ggaagcgacc tgaggcttgg 300  
tggatgctga gtttcctgca tatggctgtt gtattaaagc cagcaatgcc ttgtactgct 360  
cangtgaana acgaaccaat tcttgagatt cttggcgctg tatttggtca tctgtggcct 420  
ttcctttctac ttgccactac gttgtagcta ttac 454

<210> 33828  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 33828

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aggcaccatt gccatcgcca tgettaacgt ctcttcctt cccatcagaa gacacaatcc 120  
aactaaacca acctatgctt tttctcacac tcgattaaga ccattggaac tccaccctca 180  
caatataaaa tatttatttc aaacccaac aatccattca gtttcacaat aattttccca 240  
ttgggtttatc atcattatca aattcaaaac actcccccat caactttcca cacatgcttg 300  
attttagtac aaaaatgaaa aataaaaaat aaaaacatca gttacaggcg gttttaaac 360  
cccataaatg taaaagtgac atgtgtcttt acctta 396

<210> 33829  
<211> 467  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33829

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 accgttggtt atttcttttag gaatttcac ataactaaga aaacaccaag gcaccctat 180  
 aacactcgat ccagaaaaat ggataatgaa gagggcgtgc aggaacagat gaaggtcgat 240  
 ctatcggcct taaaagatca aatggcttcc atctcggagg tcatgttaaa actccagaaa 300  
 accatagagg ataaagccac cgcaaccgcc tccagtacag ttagggaagc ggagccggtg 360  
 ctgcagcccg ccttgaatcc gggcctagac agaaacacgg ccatgttcgg tcgaaggtat 420  
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<210> 33830

<211> 165

<212> DNA

<213> Glycine max

<400> 33830

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 tcaaaagctc ttgctgatcg attatactca tagctcgagt tttcaatttc gagcatctcg 120  
 atatactacg gcacacaatc ggatatccga gtcaaaagtt attgt 165

<210> 33831

<211> 315

<212> DNA

<213> Glycine max

<400> 33831

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 atcgagatgc tcgtaattga aaacagaagc tctaagcata ttcagacgac aataactttt 120  
 gactcgggtg tccgattgag tccggcgaat atcgctatgc tctaaaatga aaaatggagc 180  
 tctgaaacaa atcaaaagac gattactttt taactggatg tccgattgaa tcccgtcaaa 240  
 tatccagaca ctcttaaag aaatatgag cttgaacaa attcgaaaca ctataacttg 300  
 tgactcggat gtccg 315

<210> 33832  
 <211> 357  
 <212> DNA  
 <213> Glycine max  
  
 <400> 33832  
  
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 ggtctttaact cttcacacgg atgttcgatt ctggcgcata atatgtcgag aggctcgaaa 120  
 ttgaacaacg gaagctcttg agaaattcaa atgggcataa cttttcacac ggatgttaga 180  
 ttaaggcgca ttacatatag agacactcga taatgaacaa cggaagctct tacgaaatta 240  
 aaatggtaat aacttttcac actgagggtcc gattcatgct tataatatat tgatacgctc 300  
 gaaactaaca tcggaagctc tccagacatt caaatggtca taaatcttca cacggat 357

<210> 33833  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
  
 <400> 33833  
  
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 atgaccattt gaattactca agtgcttccg ttgttcaatt ctgagcgtgt cgttatgtga 180  
 ttctcctgaa tcggacatcc gtgtgaaaat ttatgaccat ttgaatttct caagagcttt 240  
 tgatgttcaa tttcgagcct ctcgacatat tatgcgcccg aataagacat ccgtgtgaaa 300  
 agttatgacc attttaattt ctcgagagct ttcgatgttt aatttcgagc gtatcaatat 360  
 attataaggc tgaatcggac ctcggtgtga aaagctatga ccattctaat ttcagagag 420  
 cttccatggt tcattttcga gcgtctctat atg 453

<210> 33834  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33834

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gcctcctacg aacggcggn gaccgtcttt gtatgtggtt tacgaccctc gaagacaacc 120  
atTTTTtag cagtggctca tcagtcacct ttgattcctt ttcttaaaac aggtaactcg 180  
gctaagctat gcaaacaatt agtagcctat tcaagggact caggctttct ctgtaatgaa 240  
tcacggtttg agaatcttta tgagtgtgta taataaaata ctgataaaca ttgattaata 300  
ctttgtgtat gcatgataga gcggtttacg gaagttgaca cccacgcta ttcatacta 360  
cttctctgca atctacatac ttaaaaataa aaaccatctt taaatagtta ttctcagcc 419

<210> 33835  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33835

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anaattactt tgattcagtt tgggtttcaa gctagcaagt gtgatccatc cttgttcata 120  
tataagcgtc aagctcacac tatttttctt ctagtatatg tggatgatat tatcttcacc 180  
gacagctcat cttctctcat ccaacagatt acaactcaac ttcattttgc attctctctt 240  
anacagctag gtcaattgga ctatttcttg ggtattgaga tcaagtatct acttgatagg 300  
tctctttctca tgactcanag caagtacatt agagacctcc ttcacaggac tcacatggct 360  
gaagttcatt ctatttcttc tcctatgacc tcttcttgca aactgtctan aactgggtgt 420  
gaattatttc angatcctac tctctacaga tct 453

<210> 33836  
<211> 480  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33836

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cgagctgcgg cctgttagct tgtaggatta tgggtgacct acgacatgag gaactacgtg 120  
gaccgccggc gacggcgcag aacatgattc cagcttccat aactgcgac atatctcgcc 180



atgccgagca gtaccctcca agtgacgta cgtctgctaa cgaagaccat attatcggac 240  
 gtctactcac cgggtaccta taaatacttg caaccgtacc gaaatgcact gacgctactc 300  
 attcacacaa cgtatactat catagcccat agcacagggc acaggcacac cattatgggc 360  
 atggcaccat cgaaaatgac agcttctaca cttagagacc ccagttacaa ttacttctat 420  
 cttaccaccc cacgatgatc gactcgatac gatactggag ccttagtaat atcatgaccg 480

<210> 33837  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33837

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 actcttaaaa caaaaatggc atacaacctc ctccaataaa cacaacatc aatgtaaatt 120  
 tagagcaaac ttatgcatat acttctttac gaacgttcac ttgcacaaga cattcttata 180  
 actaagaaaa atgcacccat gtacaatcaa ggcaccttcg ttacctagat tatttatatg 240  
 tacttccaag gtgtatttgc tacctacatc acatgcactt ccttggctaa atttacatac 300  
 atgcatactc aaagcatttg gggtagcaaa aattgcacat gtgcacattc cggtatttct 360  
 aatacttatg catatacaaa ctttgtgatg aatcttggct atctacacaa taagggtgcta 420  
 catttcataa attattcaag tgtttt 446

<210> 33838  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 33838

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 ttgctaattt ctgctagagt ttgtctaaat ttctccaat tagatgatca ttccagatcc 120  
 aactcagtat gagtatagtt aaatgcccaa attgcagtec cattctgtgt cacttttata 180  
 atgaacgcat tctgtgtcac ttttataatg aacgcattct gcctaattgc aatacagtac 240  
 aagagaattt atttgtttca taaacaaaga actggacgac aggtagaaaa ttatgattca 300  
 attcagaaat ccattgcaag acaatagcct tgagattgaa gagcttcagc atctgtctaca 360

tgtctatatg actaacgacc caaaacagtt ac

392

<210> 33839

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33839

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tatcttttgg tgtcaccctg attcagtga gttagtcaac gcatgtaatt tgggtgttttt 120

gatagacagc acctacaaaa caaacgggta tagactccca ttgctcgatt ntgttgggggt 180

gacaccgact gggatgacat tctctgccgg ttttgcata gtggagggtg aacgcgttaa 240

taattntgta tgggctttac aacgcttctg aggctttttt ttaaagcgtg atgccctccc 300

tggagttatt gtcactgata gagaccaagc attgatgaat gtagtgaaag atgtattcct 360

tgaatgcaca aatttgttgt gcatctttca cataaacaag aatgtgaagg ccaaattgan 420

atcactaatt 430

<210> 33840

<211> 257

<212> DNA

<213> Glycine max

<400> 33840

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accaggtatg cacgctgcaa cgttccttat acggtctcac acaagctacc cgacaatggt 180

tcactcgtct ctacttattt attgtttctc atggctatca caaagcctcc gctgatcatt 240

ccctcttctt aagcttc 257

<210> 33841

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33841

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aacgtgaaga atgtcaacat tacattcaaa catgggtcac agaatacaca cgagaagtgt 120  
acttgggagc ttacctgaat caataagttg aattgatgtt gtacaatatg gatattatgt 180  
gcattattgt tgcctaacta atgtttttcg tcttcagggc acattggcaa cttgttggtc 240  
tgtgtccacg ggacaatatt gttgtttggt tttgttcttt gcataagaag cttgatgtta 300  
acatcaagac tgcagtgaac aagttagttt taacattata agtcaattat tgtatagaaa 360  
ttgtagcgta taaacacaat gattatntga ttatatatgt taagttattt ntaaactagt 420  
gcaatgaaga cattaaccac tactt 445

<210> 33842  
<211> 168  
<212> DNA  
<213> Glycine max

<400> 33842

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ccttctgacg acgagctggg acattggcgc agggacgaat gccccggcat ttacgccatc 120  
acgcataatg taaaccttta cggctctaac agctctatag ttgggcct 168

<210> 33843  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33843

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tacaaagtag ccaaattacc aaaacattat actagcatta aataacacaa ttagagtcaa 120  
aacaaccctc taagtctaataaaaagataag gaaagtgtct taattggtac cttanaagta 180  
tgtgtatttg gcacttaaca gtttaccaca tgtctaagaa attgaacttg ttgaggcaaa 240  
atttgcattt tgagatctta gcattgagtt tctctcctt caagatttgt agtagaatct 300  
tcaagtgttt ggcagtgtcc tcttgacttc taaatcatgc tagaatgtcg acgatgaana 360  
ctgtaacaac cctaacaaaa attacaactt aagctattag aagaaactct gtgttggtgc 420

atttgtgctt gtatgtactt aatt

444

<210> 33844  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 33844

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aggttagaag aggtatcacc ttcatatgac ttatcacact ctacaaactg aaacggttgc 120  
tgcttgtcac acaataacag ataccgaaaa tgcactgacg ttacttcact aaaaaatggc 180  
acacgtggga gactgaactg tgggatgcta cctctactat acacgaccca gtatcatgtg 240  
atgtgagcga agagtatgca cctacactat ctaactcaca cc 282

<210> 33845  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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aatgtgagtc agttactcct ctcttcattt cccaaatccg gatattcacg ttaaaatagc 180  
agctaaacta attctaggta aataagtgtt ctctgtctctg gtttctaatt ccggaattga 240  
ttctagggtcc aaaattgaaa taaactttta gcatgttttt gcgttgaatg aaaattttta 300  
aaccgaacaa acatgtgact ntacttcaaa atcaattnta cttcaattca attntgcaaa 360  
cgatcactca attacacact anaacttctg annacgtaac tcagtggtag tttgtgggtg 420  
ttga 424

<210> 33846  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33846

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 ngacctgacg cattttcctt taaccttttt tctacactgt atatngttgc aagcagaagc 120  
 ttgacacata tatatcgctc acctgtgtta cagcccgctc acactccttt caattgcatg 180  
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 gcgccacttt tataatgaac ccatctgtgt cactttttatc atgaacgcat tctgcctaata 300  
 gcccatacag tacaccagaa cttattcggt ccataaacac agaactggac gacagggtcca 360  
 aaatcatgat cacatctcaa ttcattgcag cacctagcct tgacatcgat cagtctcaca 420  
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<210> 33847  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33847

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 attacgggac tcattcagac atccgagtaa aaaattattg tcgttagaat ttgatacgag 180  
 cttccgtttt caatttggag catctctcgc taaattgoga cagtctgtcg ggcattcaag 240  
 aaaaaattta ttgtcgtttc atatttctaa gagtttccgt tttcaatttg gagtgtctcg 300  
 atatattacg ggactcaacc ggacatccgt gtataaagtt attgtcattt caatttgctc 360  
 agagcttcta gtctcaatat tgagcgtctc aatatattac ccgattcaat cggacatgag 420  
 agtaaaaagt tattgt 436

<210> 33848  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 33848

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 atgacggaaa catataaaaa cagaaaatagt aatgttgtat ggtgtttccc agcacaactg 180



ctatatattagt aatcaattac aagtgaattt gaacgttgga attcaaattcc a

411

<210> 33851  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33851

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ccacgtgtca acgggcttgt cagccgtgat tgacgaaggg cgcagaagac gacgttagtc 180  
tctgctgct atcaggcttt tcgtcataca gacaacaaaa agtttatagc gataaccact 240  
cgggtatttc cgcccgctcag cgtgactcan aagtcagtat gacagatctt gtgagcgcgg 300  
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<210> 33852  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33852

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gagctatcac ccattggtcga agaatttgaa gagatcctag gatgtcctct agggggaagg 180  
agaccatacc tcttctcagg gttctatccc tcattagcta gaatttccaa gatagtccaa 240  
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agataatatt tggaggcaaa agcaagaatc ttgacaagta aaggtgaatg ggcctcggtc 360  
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gtggacctag cagcaatcga c 441

<210> 33853  
<211> 408  
<212> DNA  
<213> Glycine max

**Figure 1**

<210>	33854
<211>	500
<212>	DNA
<213>	Glycine max

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tggctgagtc	ccttgggagat	atcaccaaaa	acaactttgc	agctgaaaat	aaaagatgtg	180
agatcaacgg	ggcaacaagt	cgatgctcta	taccctgtgg	actccctact	accctaaacc	240
tcttgccctg	ggtggcacgg	cgtcaacata	gaacaacaga	gacacctgat	ctccaatcct	300
tacattaact	ccacgaacga	tgttggtgtg	ggacaagcta	tcccacattc	ctcaaataaa	360
ccacatgctc	cccatttcat	gcaccgggac	acctctatgc	tgcaaacactg	catatgaact	420
ctataccgtc	aatctgccat	atcatattcg	cacacatgct	ctatggctca	cgaccgagcc	480
ttctggccat	ccgctcgccg					500

<210>	33855
<211>	361
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      33855
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14101



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ttagccagtc gcccgccgta tggatgtcca actaacgact tcnccatttc atgattgtga 240  
atgcacagat caactggagc atccaagctt tcccttcatg cactgggttc ccacgaagtc 300  
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c 361

<210> 33856  
<211> 498  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 33856

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tagctgagggc tgatattaac acggtggcca tgtgttcttc tgcaagaaga aaggacacgt 180  
gaaacagaac tgccteggct tcccacagct ggcctcacca cgacaggtaa actcactctc 240  
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tgcactctcc atccatattg caccctctt acagggcatc gaaaccatac cgaaccctac 360  
gcgaactgac aacaccattc tatcacgcaa taacctattg ctacattgtg gaggccatta 420  
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aactctctcc ccactccc 498

<210> 33857  
<211> 438  
<212> DNA  
<213> Glycine max  
<400> 33857

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aattaggtac gttaagcttc cgcataatga aaagtcttat aagcctgata ggccgaccta 120  
tatatatata tatatatata tatatatata ctatatatat acatatatat acatatatac 180  
tatcttgtgg gcgccataaa tattcatctt gaaaaacact cgcacaccac atccctataa 240

tcaaccaaag gtctacttac actgcggtgca ccccttccctca tctatcgacc tacccttttg 300  
 ctgtaagaca tccttctaca tacaactatg cgcgccttat ttctataacg tacattgtcc 360  
 cgcagagaaa taactcctcc tctcccgctg tatcttgccc gtcccatgac aaacacggct 420  
 ttctatgcat ctcacccc 438

<210> 33858  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 33858

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 tcacccgctg gacgaccttt tgagggcatg tgtcttaaag cacaagggca gtcggcacag 120  
 tcttttgacg ttgatagagt ccacttataa cagtagctct cctctacca ttagcatggc 180  
 tccttatgaa gctctgcatg gtacaacgtg ttgcacaccc ctatgtctgc tatagcccg 240  
 agaagacact caccacgccc ctgcactggt gcacaccac ac 282

<210> 33859  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 33859

agtgcacaat atcatctcta atatttctat gaagagtttt tattttaaaa tccttgctta 60  
 gcaacattca cttttttgcc cgaactagca cagaatatgc ctagtattta cttaatagca 120  
 tcaatctgct ctaagtttgt tcctgcacaa catagaaaat catttgcaaa ggcaaggtaa 180  
 gaattttttg gaccaccttt agatgattca ataggcttcc aaattttctg ctccactaca 240  
 tcattaatca attgaaataa tctctcaatg caaagaacaa atagatatac agagatagga 300  
 tcctctatca cactcctcta acatgaatga atttttcaag agcttctcca ttccacatca 360  
 cctg 364

<210> 33860  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33860

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 atgagctntt ttttagctta agaaaatcta gcctgacaat agtagaataa taccatacaa 120  
 aaacacaaac taacaaaata taattaaacc ctttctccat tgtctgatct aagcatttca 180  
 ccttggtgcaa canaggtgct acaaggtact aaaatcagac aacagaaaag cataccttga 240  
 tccttggtcac atttgcttaa acatatcaaa atgttgatgc cattctttnt ctgacatcaa 300  
 gatttcagcc cttggagttg ttctcccact tgcttttaat ttctcattaa caagtaacgt 360  
 ggagaattca caccanacag ctttcacttt aatgcagaag gaanaccaat caactctcaa 420  
 gcatcacat 429

<210> 33861  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33861

gccgcccggg gagcttgana ctgagacttg anaacccaaa actaagcggc ctatgaggac 60  
 tacacagatt taccocgttt acttttttcg agagacgacc acgaccgtca cgtcatgacg 120  
 agtgacatac cacaacgcca actctcttta cgctgtagct atatgccacg taccatcca 180  
 ttatctagtg aatactaggt atggcctacc actgttctac tatacaatgt gaaattctag 240  
 ccgtctacta attcaatatg gaaacacata caacattctt accttgcaat caccgatgat 300  
 gaatcacatt cggggacact tatatctcat ctaagtgtgc actcataact catatcaacg 360  
 aaagcgcaga aactacatat tgtgcccttt ccatgaccct acgacgtgcg ataccagatt 420  
 atattacgcg gactatactg accg 444

<210> 33862  
 <211> 154  
 <212> DNA  
 <213> Glycine max

<400> 33862

tttcatgcaa gctttttgga gtaaaaacat gggaccaact cattttattt caaaaccgaa 60

gtcgtatcta gtcgatgtct gagagaccat acaacgttcc taacgatctc taattatgtg 120  
ggccattaag tctatcatac gctgacaata gccg 154

<210> 33863  
<211> 449  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 33863

tctcaaggag gtgagcttag ttatgatatg ggtgtgtgta gctaagctct agctttctcaa 60  
ggaagttttc tcaaagaagt ttctcaagga agttttctca agaaagcttc tcaaggaagc 120  
tacctagtct ataaatagaa gcatgtgtaa cacttggtgt aactttgatg aatgagagtc 180  
ttgtgagaca aaactcaaag ttcaacttct ctcccttttt cttccttcaa tttcgtgctc 240  
ccccctatct ctttctctcc cactttcttt tcttccattg aagcatcctc tccaaggctc 300  
atcttggtgg tgaagctcat tcttccatgg cttattcctt agtagatggc gcctcctctc 360  
acctcttctc ctttgtcttc cactgcatct ccatggtgga aaatcaccat taaaggacct 420  
cattanagct canagatccc agcctcata 449

<210> 33864  
<211> 449  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 33864

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gcaatcaatc taaagcaaaa gaaaaaaaat gcaatcaatc gtttccaaaa ttcttaatag 120  
aaattttaat caattgtcaa gctatttaag caactatcta ttattaaaca catatattaa 180  
atattataac atatatantt ttgcatatct aaacgttggg ttatcttggt taattttcaa 240  
acctgatatc agtgtaaaaa atttctaatt attaatgcaa agtctattct ttttctcata 300  
tctataattc tagttcttaa tattctgttt atctaaatct ttaatttcaa aatattttat 360  
ctaaagggtc ctttaatggt gaaattgaac gaatagaaaa taaaaacttt aactgtaaat 420  
aatctattca caaatgattt tcttatata 449

**Debt To Equity**

[illegible][illegible][illegible][illegible]

**Debt To Equity**

**Debt To Equity**

<223> unsure at all n locations  
<400> 33867

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caatcacaac acttcattct atacaaaatc aaaccactga atcatattca aatagttcac 120  
tattcaatca tgcttttgta caagctacta ctacaaacaa aataactgaa atttaaaaga 180  
ctaaaattta aagactgaaa tttanataac taaaacataa acataaaata aactaaaata 240  
gaataataat aaactgttca aaatgcaaga caagaagata aagatcctgt caatccacct 300  
gtggatgata ctctgcatgc tcgttcaaat ccaacaccgg agcagctggg ggatcctatg 360  
aaatgggctg cttttgctcc aatgctgggtg cagatggctg gtaatcatca gtaattgggtg 420  
ctggagagac aggaactaca gct 443

<210> 33868  
<211> 340  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33868

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cgatcncaaa cttccgttcg tccatctgtt tgtggatgat aagctgagct catccgcaat 120  
ttcatgtcgc tcatctgaaa caggctcttg cagacaattg cttatgaata atgggtctct 180  
gtcggagatc aagctgcgtg gcatgccatg acactctctg acgatgtcca tgaacaggat 240  
gacgactgac taacctgagt gctgagctgg cagcatgcct acgtgtatgc ctcttgaacc 300  
tcgatctact acacacaata tggcagtatt tctgtgaatc 340

<210> 33869  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33869

ttccatacct tgagggaact caactcatct aagattctat ataaagggtc tntatgacta 60  
gtacccttgc cattaacact agatgaatga tgactcatgt tgcttcctaa gttgtgggtc 120



<210> 33872  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33872

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 aaccatgggc ggtctcaagg tagtataaat aattaattga actttcatta tatttttaaaa 120  
 ggcccaattt tgtttgttta tttagatgtg acggtgaacg aatcaatctc aatcattgtc 180  
 tctttccctc tcaccaggct attggctatg actntgacta tgatgacttt catgggtaat 240  
 tgtctttaca tatttgagat ttgttctatt ttttttccat ttattttaat cgttagaaat 300  
 catgttaaata ataatggaat ccaaaaagta tttagtgtgt gttgagcagc tctgttcattg 360  
 ggagattgcc atatgatatg ctgaaacctg accctgttct cangggaaat ttgctaagct 420  
 tgctgttcg aanagttgtg agttccttt 449

<210> 33873  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 33873

agctttaatc aaagttctaa ttaagatggc gagcttaca tgaggaatat tattgccact 60  
 acacctttta ttctaacttc accatcatca ttctacaaaa tcagattaac ttcattcatgg 120  
 caacttgaat tatcatgtca tatataatgc tattagtcta taggcctttc tgggtacaca 180  
 ctccataatt ctttactatc acaggctttc aattacctat atgtacccat accaacaccc 240  
 tcacaaaatt gaagacgtat actcttacac tatgatgact ctttt 285

<210> 33874  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33874

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cctccaaatg cgcgcttagt acacatgcac agtacaactg acttctagtt tggcctctca 120  
 tgctgagtac actcctccaa ttcttcatgc atttttttga tgatgtacta atactctata 180  
 aaataaaacc aaacagtata aatttactca ctttagcatt ctgaaactaa aaacctaaat 240  
 ttttatcttt ttagataaaa aaaaacatta aaagaattag ataattacta tataatttaa 300  
 atgcacaaac taaatatgga taacaattat caaattaata gtaaaaaagg ttcaataaat 360  
 gacataatag ggatggcgaa ggggtacaca aagtcacacg gaaagatgtt ctgagatgat 420  
 tatatttttc aacaagactn tgcttttgaa t 451

<210> 33875  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<400> 33875  
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 acccatcatt atgtccgaag cacctatacg catgaaattt atgagagaaa gaagtccacc 120  
 caaacctgaa ttgtcgaagt ccagtcgta tgcacgcact tcatgacccc gaagatgctc 180  
 tccttttcgag atttggggca gaaatgatgg ccaacggctg aagctttgtg tggagggtcc 240  
 atggagactg aagaataaga gaacgacacc gtgagggaca gagagggtg tctgaaatga 300  
 ctg 303

<210> 33876  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33876

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 agtgtgcagg tagtttctaa catttggttac ttatttttat ttgtagaaca agttgaaaat 120  
 accatgcatt tcatataaag atggggcatg aactanaaga aacaactggc atcaaggatc 180  
 aagctggact tcaacacagt gttgtgattg ttgtggaggt cgacaatgga aaaggcaaac 240  
 tgagagccta ctttggcgat gaaattatgt ttattattaa tgagtaccac acttatcaaa 300

gttgttatgg tcaatttcaa ttcattgggtg aatgcaagtt tatgacccat tttaccccga 360  
 taagtccatt agcaatgcct cataactcaat gcctgactca ttccanaatc actctttaaa 420  
 ggatagtcac tc 432

<210> 33877  
 <211> 115  
 <212> DNA  
 <213> Glycine max

<400> 33877

agctttgagc aaattttaac gacaataact ctttactcgg atgtctgatt gagtcccgtc 60  
 atatatcgac atgctcgaac tggaatacc aagctctgag ataactctaaa cgacc 115

<210> 33878  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 33878

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 attacgggac tcaatcagac atccgagtaa tacgttattg tcgtttgaat ttgctcatag 180  
 cttcgataat caatttcgag cgtctcgata tattacggga ctcatgcaaa caaccgagtg 240  
 aatagttatt gtcgtttgaa tttgctcaga gcttcaacat tcaatttcta gcatctcgat 300  
 atattacatg actcaatcag acatccaagt aaacagttgt tgcggtttgg aattgctcag 360  
 agtttcaaca ttcaatttcg agcgtctcga tatattacgg gagtcaatcg aacatacgag 420  
 tcaaaaactta t 431

<210> 33879  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33879

gacctctna gccgagatga cggcctgcag gctttagct gcatgtgtgc tttgtcatgt 60  
 ggcgacaccc gaatatcggt ggctctactg attatctgtg cccacatcat ttacctatgg 120

[illegible]

taacttaaca taattcacat catnttttaa tcattgtgta acttcacttg noctaaggat	60
ttaatcaciaa aatcatattc tataccttca cattaatcac atgttcataa cacaacatct	120
caagtacaac acaacatctc tcacacaciaa ttcattacc accatcacat agcaagtcac	180
aatgatcatt acacagacgt tatgcaacat atatactaag actcaatcct atattgaatg	240
tggtatctta tcagtgaataa ataacgctag ggcacctagg attacataat aaaatacacc	300
acacaatggg taagcaggtc actcttatta aaagacatca taagggtgatc aattacgggt	360
attctgttta gcgtgaatgc tctaaccata tgagatcaac atagatntaa aggagcactc	420
acatcgagt	429

agctttacta	tcacaagcac	atacacacat	tactccatta	atgcatcaca	cgatactcta	60
tttgaaaaatg	gatctttcac	tctgtacctg	caaggactgc	tgacccttcc	acctgatagt	120
tcattgaatc	aattgacaca	atatatcata	agacataagt	ctcaaagttc	ataaatagag	180
agagccacac	ggtcaaaata	agcacactaa	ccatgactgc	agaaacaaat	attgaaatac	240
ataatatacc	actattatgt	gtagcgcatc	tcttcaattc	ttgtacctaa	aactcgattn	300
tcttggttaac	cacacgcaaa	aagaccacca	aaacgagact	tgtcaaccac	ttgagagcct	360

60370T: 90T: 2420

aactgaactt gcttagatta taattctgct cttacgaact tacaatgcta t 411

<210> 33882  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <400> 33882

ttgatgggtgt caagaagaaa tcacatgttt gtcacatcatca aaattgggaa gaatgtgaat 60  
 gtatgtatac atgattttga tgatgtcaaa gaagaatcta acaaggctgc ttcaaaggat 120  
 aagcatttgc ttcaagaata attcaagatt gttcaacaa acaaagcctt gtttcaagat 180  
 tcactaaaga ccaagccttg ccttataaca aagtgtttc aagacatgca aggctctggt 240  
 aatcgattac caggaagtgt aatcgattac cagaggacag gggtgagaaa tagttgttga 300  
 aaaaggtttt gaatttgaat tttcaacatg taatcgatta ccatatgtct gtaatcgatt 360  
 accaacaacg gaactttgga aattcaaatt caaagtcac aacccttcaa attataattg 420  
 tgtaatcgat tacacaaaca ttgtaatcga tta 453

<210> 33883  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <400> 33883

gggccaatca taggggtgcta cactactata gccacacttg gcgaatgaac tctccgacag 60  
 gatacagatg tggggccgaa aattctgcc aagtgacaat gatgttctcc gtagtcaccc 120  
 acatctctca tagacctcac aggaatatat cataatatga tgctctatgc tgactatgca 180  
 tatcatgtca taaatgacat tctgcagggt aggaccggag acctttacat catgacttta 240  
 acagtccaga catctatcta ggatattgatt cagagtgact atcaatatat cagtcgcag 300  
 aactagatt accttctggt gcaatgctgg acctatggca cgacgtctac ctgcacatat 360  
 ttcaccatct gctgagatga gcccg 385

<210> 33884  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 33884

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tttggtgttg tcaaaatatt agttttattaa aaaaaaaaaac tcttgactct acaatagaaa 120  
attcccatga atagccatct ctcaagaaga ttgatgggtt cgacttttgc ctcccttaat 180  
tntttttaga tttaaatatg tttttgtttc ctcaaatttg ggtcactttt atttttgagg 240  
aactaaaaat agaatttttt gaaattgaag aactaaaaat atttttaaatt tttggaccaa 300  
aataaaataa ctaanatttg agagacaaaa aatatattta agttttttta ttctataatt 360  
taaatagttg gtttaattca tataaagaga aaacaattca tttatatcct ctctaa 416

<210> 33885  
<211> 182  
<212> DNA  
<213> Glycine max

<400> 33885

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attaaccaag ggagacgtct ctaatgcagc agatttcgac gctggcaata tatgttcact 120  
tggcgtaaga attagcaagt gatgaatgat ttacttgtgg atgaacgtgg ccacagaccc 180  
ct 182

<210> 33886  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33886

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ccttaacttc ctgtcttcat ttttaagcct tgtaatcgat tacacacct tggtaatcga 180  
ttaccagagg ccatattcca aatatcactc aagatccata gctggccagc caccacacaa 240  
gcctccttgc tttgtgggtct ttgttctttt atcggttgac tgccaggagc tctcctgttt 300  
aagtacgtca tangttctca ctgaatgact atgccaggt tgggtcgga ttggtcaagc 360

ttggttntgg gcaatagcac cccacctggc atccncaagg tctcctggcc cccacgacat 420  
atctccaggt accactct 438

<210> 33887  
<211> 409  
<212> DNA  
<213> Glycine max  
<400> 33887

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tggagaactt gaagagcact ctgagagtgg ctggagggtgt gcttgatgat gctgagaaga 120  
aacaaaccaa actctccagt gtcaaccagt ggctcattga gctcaaggat gttctttatg 180  
atgccgatga catgctggat gaaatttcca ccaaagctgc aactcacaag aaggtacgta 240  
aagtgttttc tgcgtttacc aataggaaaa tggccagtaa gttggaaaaa gtagttggga 300  
aattagataa agttctagaa ggcatgaagg gtcttccttt gcaagtgatg gcacgggaga 360  
gcaacgagcc atggaatgct ctgccaacaa catctctgga agatggata 409

<210> 33888  
<211> 453  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 33888

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tgaagcacca ttatggattc gtttcttggt cttecgctatc tagttcattt cttecgaggca 120  
aatcgttaac attctagggt gtggaaatcg caaaccgta agctttttgc ctgcgcgtcg 180  
tctagttggt ttttagaagc aagaatgtcg ttctgtttgg gtgtcaaagg tgggtggttaa 240  
aaaacatggc tgtcgcctga aacatgtcat cgtcagcgtc gttcccatgg aaagaagttc 300  
ctcatcgta accttagagc cccgaagtcg cgtgatgtgt ttgtgtaacg tagagactcc 360  
attggtgaca tcgtggatng aggataatcc acganagctt tntatgggtg tgggtcaatat 420  
aaghtaagga ataatgtata tcgtgggtta tgt 453

<210> 33889

<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33889

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gaagcagtac gcaatctatc tatcaagtat gctgctgtag tgaaggcaaa atccccaac 180  
ttgagaggca gtgaagcttg ttttaagaaga gcgagtccta attccacaat atgtttgtgt 240  
ttcctttcca ctacaccatt ttggtgatga gtgtgtggac agatcaatct aagagtgata 300  
ccttggttg ctaaaaaatt agtgagaggt ctgaactctt ctcctcaatc tgtgtgaaca 360  
ctcttaattc tggagtcaaa ctgaagttca ttagcttgaa ctgttgaaa 409

<210> 33890  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33890

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atcatcatgc tttgataaat gcaaaaacaa gaaaactagg gcaaatgaag agggtagaga 120  
tgaggagaga gcctatgctg tgacagccat tcctatatag ccaagtttcc caccaaccca 180  
acaatgtcat tacttagcca ataacaaacc ttctccttac ccaccgcca gttatccaca 240  
aaggcaatcc ctaaataaac cacaaagtct gtctaccgca tttccaatga cgaacaccac 300  
ctttagcaca aaccanaaac accaaccaag aatgaattn tgcagcgaga aagcctgtag 360  
aattcacccc aattccagtg tcctatgctg acttgctctc atatctactt gataattcaa 420  
tggtagccat aaccctagcc aaggttcac aacct 455

<210> 33891  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 33891

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 tgacgtttga atcacgctga ctggcggaga taccgagtg gttatccgta taaactttct 120  
 tttgctatgt ctaagactta aagcatgaca acaagctgag ggggtaatcg cgcagaacat 180  
 attctgcacc tttatcattc ataatcgac cgcagagtg ggtaaacacg ccgatacata 240  
 ttatgctccc tttatcattc atgaacaaca agctgagtg gttaacgcct atccatagat 300  
 gttgcccct ctatcattca gatttctcac gttgcccgat atacacgcag aaacaaatcc 360  
 t 361

<210> 33892  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33892

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 aggactatg tatatagact nttatatata aatcttatta gagttttaac acaatctcca 180  
 ctggtggttg aaatttattg agaattataa aataagaaga atgactcatc aaatgactag 240  
 tgggacctgc caaatttgtg attnttaaga aatttgagcc aacaataaag agtgtgttca 300  
 acagaatgtg ttagagacag tgttgctagc atttctctgt ttaggaatgg tgttttagt 360  
 tattagttaa aatagaaata gaaaatatct tccttatgtc aaacaggctc ctgattntca 420  
 gtttctcag acttggtgtg tcatgtgcga ta 452

<210> 33893  
 <211> 323  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33893

agcttataca ttttactcat ttaacaagaa ttgccactga aacgatagca ttggctgcac 60  
 ttgcaatcct tggccacaga tcagcacact cttttccaat gggaccagtg atagcagaac 120  
 ctacattgaa acatgtcaca aacaaaatta ctaccagcaa atgcatcaat agaaggtaa 180



65540T:90FETH60

acggcaaaga tgaagagaat aacaagtaca tgagaacatc tcatctgtat ttctttcttt 240  
ttgaaagcca aaaataatca gtggctactc actacataaa catgcacttt gttaccatgc 300  
anataaaatc ataaacgata cct 323

<210> 33894  
<211> 457  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 33894

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tctgatcaag ttgtatgcaa tgggtgaccg atctctagaa gaaatccttg ccctaccgtg 120  
taaaccaagg aaaccaagac ctgtcaaaga gataattgct ntgatgcatt gattaatgac 180  
gacaacaagc tctaatagaag atcataactc tatttagtca tgtttttaat tgatgaaatt 240  
tatgttagtt gtgggtggtg ttcttggtgt tattgttggt tgttttttg atttaatcaa 300  
aattctattc ttattacat tactaggcat gtgtcattta cacataaaaa caaggaanac 360  
gtagaccgtt aaaagtaagt tcatagaaca taaaaataag ttgtacaaa aaacatcata 420  
agtcgaatac ataataatat aaaatatcca acagact 457

<210> 33895  
<211> 422  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 33895

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gtcatttgag agcaaaactt aatgccttgg tctaatagagc ttctgacag gttgacacgg 120  
catcatcatt cttgaagcca aaacttaagt tgactaacat taaaaatggt acgaatggtg 180  
ttcataatcc aataacaaat gagaaagaat gcttactaat tccatagaaa caagaaaaag 240  
aatacacatt cgttcatatt tcacaatctc aataaaaaaa cttgcctctc cataatactc 300  
attntcagtt gtattctagt atacaagatt atacacaatg caataatttc agaccatata 360  
nagagaacn cattagttct tacagaccta tacaataccc atacagagaa cttacattct 420

at

422

<210> 33896  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33896

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aaattcataa cttcaacact tttggtttgg tatttatagg cttcaacaac aagtgactgt 120  
tgtgagtaaa tgacattttt tttttgcatc tagaacatcg tctaaagtag gtgttttattt 180  
gagtattaaa tgctgaattt aatgctagta cactccaagc taataaagaa ctctgcttat 240  
cttccttaag ataaacttta caattgatth caatgggtcaa atcacnttt gcataacaat 300  
gacacatctt tttttatgtg aagcgagact ntaaaactta actttgctct cactttcttc 360  
acttcgacaa atggtaggaa gaataatcac atattttccca naaanaaagg atcaaccaat 420  
atagagcatt aaatgggtct ta 442

<210> 33897  
<211> 311  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33897

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atatattacg agactcaatc ggacatccga gtaaaaagtt atcgtcgtta gaaatttctc 180  
agagctttcg ttatcaatta ccagttactc gatataattat gggattcatt cggacatccg 240  
agtaaaaatt tattgtcgtt tgattctgct cagagattnc gctatcaatt acgaggatct 300  
caatatatca c 311

<210> 33898  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 33898

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 atcgagacgc ttgaatttga atgccgaagc tctgagcaaa ttcaaacgac aataactttt 120  
 tagtcggatg tctgattgag tcccgtata tatcgagatg ctcgaaatgg aataccgaag 180  
 ctctgagcaa attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240  
 atatcgagac gctcgaaatg gaattctgaa gctctgagca aattcaaacg acaataaatt 300  
 ttaactcaga tgtctgattg agtcctgcaa tatatcgaga cgctcgaaat tgaataccga 360  
 agctctgata aaattcaaac gacaantaac ctttactcgg atgt 404

<210> 33899  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
 <400> 33899

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 cgtttgagtc acgctgactg gcggagatac ccgagtgggt atccgtataa actttctttt 120  
 gctatctcta agactcaaag catgatacca agctgagtgg gtaaacgcgc acaacatatt 180  
 ctgcaccctt tatcattcat aatcacacaa tatgagcggg taaacacgca tatacatatt 240  
 ctgctccctt tatcattcac gaactacatg ctgagtgggt aaacgcgtag acaaagattt 300  
 tgcgccttat atcattc 317

<210> 33900  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33900

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 caaattgtgc agccaacttg accaaatgtg cagaaaaatg cttgtgcatt gctgggtatg 180  
 ggaaaggtag tacacattgn gttctagaca ttttctagta gatcccaacg gtcaaactgt 240

agatttatgt actaggaacc tatagtaaaa ttttcaagtc gatccaacgg ttaacgaatt 300  
ggaacaaaga gaatgttact gngtatattg agtaaggaat gctataatat gtgaatgtgt 360  
tttgggcaga agtttctgcc tcttgctgt tttcttgggt taaggtagtt catg 414

<210>	33901
<211>	323
<212>	DNA
<213>	Glycine max

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ttgcacatga	gagatgctga	gttcgacctt	tcaaataatc	tgtcttctta	gcgggttgta	180
gtagctaaac	aataacaaga	cacagagacc	ttcacatctt	gattggagtc	taattgtatg	240
cgaatcctac	acgacggata	ctcctagatg	tgctatcaga	atagtagcta	ccatgatgaa	300
agccacttta	atactggata	tta				323

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<223>      unsure at all n locations
<400>      33902
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<210>	33903
<211>	494

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33903  
  
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 tcagntcgca cccgggatcc tctgaggctt ctggattatg caacctctta tcccnggcac 120  
 cgtggatggt ggtgaagctc cttctttctg acttattccc tattggatga cgctctctct 180  
 cacctctttt gctttatctt ccgacgcact accacggtgg aaaccaccca tcgcacgacc 240  
 tcattgaagc tcacagaccc agcctcatag aagcttacia gcaagcttac atcaagtgtc 300  
 aatccgagca caagagcttc cagcacgcgc tccttaaccc tccattaact ttcagcttta 360  
 gcttcgtctc cattgtcgtt atccatttat ctccatgtat ctgctcacat gccttgtgtc 420  
 aaatgatgtg cacatgactc ttgaacatct caccgactaa acttgctata caaagtagat 480  
 gcgactttct atcg 494

<210> 33904  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33904  
  
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 caagaactat ggctgttaac tgaaatcacc atacctccac aaaagttgtg tattagttca 120  
 gatattctaga tcacatgctg aggtatataa tttgatnta acttatggga gaagctcaat 180  
 ctatgttacc ttcttatttt ctctataat ggagaagttc atccaaacat aacttgccat 240  
 aaatatatcc atcaacttgc ggaaacaagt taagattagc ttatattgat aatttcgcaa 300  
 agaagcttat tgttacaagc caaaaatata agcaatcttt ataagtctga agatgctctg 360  
 tggaagctaa atgctctaata tgtaaaactaa actactggcc ttggattttc acttctacct 420  
 caat 424

<210> 33905  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 33905  
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cgctcaacaa ttcgttttagc tctctaccct tccacatata tacaacctgc tttgccgata 120  
actttgcaca tcacagatgc cgaccttgac ctttcacata atttgtcttc ctagccgggt 180  
ttagcagcta aacactatca agacacacaa accttcacat cctgactgga gtttcacgt 240  
atggcaatcc tccacgacaa acatacaaag acgtgctctt acaataaggc cctccatgat 300  
gacagccact ctaatactgg atattattat catcctccct tataacacac taattgaggt 360  
cccaaataac tcg 373

<210> 33906  
<211> 378  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 33906

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tgtctacaag attgacttgc ctagtgagta taatgtaagt gccattttca atgtgtctga 120  
tctatctctt tntgatgcag atggaggggc cttgggtttg aggacaaatc cttttcaaga 180  
aggagggagt gatgatgaca taaccaaggc caaggaccat gaagcacttg aagggcctat 240  
gaccagaggc agacttaaac aagcccaaca catcatagag acaagggttg tcatttgtat 300  
agctgccatt gatgatgatt gaaggcccaa gtggagaaag atgaatgcc agaggcagag 360  
gcactacaa gactacta 378

<210> 33907  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 33907  
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ccaatgggtg atatttatag gttgtgttaa gatgtgtaga tctagtggca ctaagtctct 120  
ctggaattgt ttgatcttgc gattaagtct cactcaagct gctctgcttt cactttagtt 180

aatgagataa gtctaggttg ttgttggttt gtgttacgat gtgatgctaa ttatgtttata 240  
 tctcatataa tacaatatgt aacatatattt ctagcaaccg acaactaaac ataaaaactt 300  
 ctaaagcata ggagacaaat gcaccttttg gtgcatattt tatgtgctaa'aaacacttgg 360  
 ctttgcacaa ggtgagatgc gacctcaa atgtaat 397

<210> 33908  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33908

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 tttgttcagc aataaccctt tatgtttgag ggagaaaaag aacacaaaat aatagaaagg 120  
 aagccatcaa ccaatgagct agtcacaatt atccaatagt accatcatan agaaaatgca 180  
 attaataata accccaccta aagaaatagc tctaatttat actattccaa tagcaaaact 240  
 ttnttacctt ccattgctaa tctcgtntt cccaatgaaa ccaaagaaag gacctgatc 300  
 tgcttcatca agcttcttct gtttgaagta ctctgcaac tccttagcct tttgcctctg 360  
 aaactccaat gtaatgacat tcttatcatc cccaacaaca gtagctggct tctgaggngg 420  
 tgaagaggat ggtgatggag gctgagaang aagtg 455

<210> 33909  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33909

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 tgtgtaatcc tttggcaaag gaaatgaatg attacaagag tagataaaac tttctagtcc 120  
 tctagaatta atgtctaact tatttcaatt ggttgcataa ttcttagagg tctatagaaa 180  
 atttgatgaa tataatgcca aaacatgaca caggtgtgaa gttgcagaat tattctgcat 240  
 aatgttgagg gttacgcgct tgtttgacca tctanagccc ttacgctcgg ctaaatatga 300  
 ttctcttgct cccttcacat gtgatgagt taatagccaa catggtattc aattctaag 360

tgagtaaact tgtgccttca tagatataac tctggaaca

399

<210> 33910  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33910

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tcaagcaagg atcaacagct gcagtcaatc atgtttgggt ggtgaaattg ccaaactagg 120  
tgccaaaagg acaatattcc aaattggcaa taacaaacat gaatgattac aaagctcatg 180  
cttttgggtt gactagtgtt ttttaaggta tcaatgtcta ttcacactag agatgtgttt 240  
gcaatttagg ttgttactaa cagagaactg aatcaagacc tattttgcgc tnttatctaa 300  
tattttcata ttttaagatc gggttaaattg tcaaaagaac aattagacta cagagaattc 360  
atagtgatcc ttatctttnt ggtgtataat aacagttcga atctaaatca tcaagcatct 420  
atttcaattc accaccgtta agccgatcat a 451

<210> 33911  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 33911

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taacgcatgt tgaagattgc aaaacaactc gctcaccggc accagcgtcg atgatgatgc 120  
ctcattgtcg aagttcgaa accgccacct gaggatcatc ataaaacgaa gaagccgaac 180  
aggattccca tgcttgaagc attgccgccc aggaggaaaa aactcattc taacgcatcc 240  
actcgtacca cgatcgtgtc ggaccatcca tgtaaaacgg cgccactatt actactgtat 300  
ggcgcgagac tccttgatag tccaagaact gagatattct acatatccac accatacggg 360  
tgtgacct 368

<210> 33912  
<211> 459  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 33912

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 catcatctac aacggatgga ttcactgaat ctgggtgtacc ttcttctgaa ccaacaaagc 180  
 atttaataaa gccattttca aacgtgaaaa aatgccgaan aaaagggact aaaaaacagc 240  
 gagatgaatc tgattgtaac caaacgaagg tagataaaat ttctacctgt gatagctgtg 300  
 gtagtagtgg ccttaaccca ctcatccacc atttctttcc agccactgca aagtcaggag 360  
 gaaaagttaa gaatgcaagt tgttcagaac acaagtgaac aaaattaagc catacaccan 420  
 anaagaataa tagctaactt aagtagatga aatgtgctt 459

<210> 33913  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 33913

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 tacactcatc tgggctagtc ttgctcacac tgcagataac agatcatata ctatctatgt 120  
 tagtagctga acgaatctga tacatttatg aattgttttg gactctagga tgttgagcca 180  
 atgacaccat ggcttgatat agctgagtaa ctactccac atctgcattg acagtctctg 240  
 gacatccatc taagggtgaa ccatcatctt attctctcat cctac 285

<210> 33914  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33914

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 gcttattcta ttaaaaaaag gacaattntc gtnnttcaat acattaaata ctaaattgat 180  
 tggcaatgct aattntaaga attaaattga tggctntcta tttttactgt tttccaaaat 240

aagtttagtt aaggattcaa gaggatgttt tctttttttt tttaaaaaaa aaagaatagc 300  
 atttaagtgt accgatactt ccacaccttg attntaataa aagtttecta attgaaaaga 360  
 tattcctata aagaattaaa aatggacaat taaataataa taaattnttt actatcatcc 420  
 aatcataatc tataatatat gataaattt 449

<210> 33915  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 33915  
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 tacaaaaaaa atgaacatat tagcaatgga ttacgtgttg gggttagtac aagatcaacg 120  
 gggttcctaac acaccaatct aatacttcaa tcaattacca aaaggctata ttggttccat 180  
 ttgatagtta cataaaagta tttctaatat ctgctgagaa aaagtatgat ctattttgca 240  
 tttaaaaata tacaatcata atccatagag aaaaatagat ctatgtaacc caatgtgcat 300  
 t 301

<210> 33916  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33916

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 tgtcaatgcg gaaggatatt tgcgtttcac tatccatgtt caciaattat tgcagcttgt 180  
 ggttacgtga gcatgaacta ctaccaatat atggatgttg ttacaccaa tgagcacatc 240  
 ttanaagcat actccgcaca gtggtggcct cttgggaatg aagcggcaat tcctccttct 300  
 gatgaggcat ggacactaat ccctgaccca actacaattc gtgcgaaagg tcggccaaaa 360  
 tcaacaagga taaggaatct aaccaccgac aaaaatgtag tagatgtgga gcagaagggc 420  
 acaataggcg ccgatgtcca atgcaa 446

<210> 33917  
 <211> 74  
 <212> DNA  
 <213> Glycine max

<400> 33917

caattcatat ggagttttct ttaaaatggg tcttattaaa gccctatcta taatgtacca 60  
 cgcagtgtta atgg 74

<210> 33918  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33918

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 caagtacatt ggatttggtta cgaccatgcc ttcctgattt ccagctggga aattggcgag 120  
 tggaggaacg ccccggcatt tacacaacga gcataatgta aacctttacg gttttaaaag 180  
 ctctatagtt gggcctagtc tatagagttt ttccttttgc taacgcttcg tgtcttttgc 240  
 ttttgaattt ataatacaag gatctttctt catttggtcc tacgtctcta cccattctca 300  
 ttcattngca tgtatacttc tttttctgaa acggcagatc cgatgacgag tcccccgaaa 360  
 gtactaatac ctgggacccg cctatcgact ccgagcaaga aatgaatcan acggatgatg 420  
 acggacacga ggatgtggga ct 442

<210> 33919  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 33919

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 tgcactctgt atgccttggga caattcaaag tattcaagta agattctaga atcacactag 120  
 gagtcaaact ttccaagttt atccttgggtg tttaggatga aacgctgaca tccaaatgag 180  
 tggaagtaag agatattggg cttacgtctc ttccataatt catagggact tctttaagat 240  
 aggccattatg taaattttgt tctataaata ccaggaaaca tttacagctt caaccataa 300

atctttggga gttgagtgat cgttaagcat tgttcatgcc atttcctgaa gagatatctc 360  
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<210> 33920  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33920

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 aaagaaacta caaatgttac tggtttctctg tgagaatgtc tttatgggtgt tttattgtca 180  
 gactctgctt cgataaattt gtccataaaa agacaaataa atgagtttct tctataattt 240  
 aaaatcaact atgcacaaca ttnttaaatt ttctctcatt ctaataattg tctaanaatt 300  
 aagaacatga gttaattnta gcttattggt taannatcaa tatatttata tattnttttn 360  
 tattntcttc ggtaagtact tgtgaagaag tttatcanag ccttaattag cacttagcat 420  
 cangagtcac t 431

<210> 33921  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33921

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 gagctgaatt aaagcatggt gaagattgca aaacaactcg ctcatgggca ccagctcgat 120  
 gatgatgcct cattgttgaa gtttgaacaa cgccacctga ggatcatcat aaaatgaaga 180  
 agcaaaacag gattccaatg cttgaagcat tgccgcccag gaggaaaaaa actcattcta 240  
 aggcattcac tagtaccaag atagtgttg accatccatg taaaatggcg ccactattag 300  
 tagtttatgg tgtgagactc cttgatagtc gaagaactga gatattctaaa tatccaaccc 360  
 atacggttgt gacctgcana cgttgggaca 390

<210> 33922  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33922

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 caaggcttaa gtgaaaatca ttatttcatg cctttcattt gaactgcttg atgatcaaca 180  
 aagttaaaga aggtcttctg tttgagagga taacgtgtta gctntagttt agtcacatta 240  
 ctattgaaga taagggttgg gtttttgtac ttactaatcc ctttcagggg aagcgacatt 300  
 cactaatggc tggcatgaat ttgttaggaa taattcacag ttntaaaaag ctgtaaactg 360  
 gtagttataa nggtgggttaa gtttgttttc ttataaccaa caagcagtta ctattaacct 420  
 gctatata 428

<210> 33923  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 33923

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 caagtaacag ataataact acctttgtta gtagctgtac caatctgatt tatttgtgaa 180  
 ttgttttggga ctataggttg ttgtggtaat gacatccagg ctttatattg ttgagtagtt 240  
 aatettacat cttcattttg cgtctcttga ttctgatcta atggtgaacc atcaccttct 300  
 tctettatac tactagcatt attgat 326

<210> 33924  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33924

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 ggacgcagat atgggtctggt catagtggat gattacacta gatggacatg ggtagggttc 180  
 ctaaccacaca aggatgagtc ttttgatacc ttctataaat tttgtaaaaa gatttacaat 240  
 gaaaaaggta tttgtatctc ttcaatcaga agtgaccatg agggagagtt taaaaatgat 300  
 atttttgaaa aaatttgtca agagaatggg attcaccaca attttccact ccaagaacac 360  
 cacaacagaa tggagttttt gagagcaaaa atagatctct ttaagaaatn gctangacca 420  
 tgcttaatga cccacccaac cctaaatact 450

<210> 33925  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33925

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 cccccaaaat ttgaaacctt cacaaagtag tgttgaaaat gattaaatca ttccaagctc 180  
 atccgcttag ccctaattgac aatatatctg ggacaaaacc aaaagaaaga aatatataat 240  
 ataatccgcg tgaaacagtt agtgaaattt gtcaaatttg aaatatataa tataattcct 300  
 gatatatattt ttcttccaat ttgattggga gacaacaaaa cgacagacat acatacatc 360  
 aaaatccagt tgcttaatca catgagctac aagtacatac aatacaatta atatccaa 418

<210> 33926  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33926

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 tgctgtgcac actggcacga tgaaggacga gatgaatgcg ccgagccatc tctctctaga 180  
 tggagcccgc acgatgacct ctaacgctga acacggcaca ttacatctgc tagcacctcg 240

ctatggtaca cagagcattg ctgctctat aactatggcg gagaagcgca ttgaccctat 300  
 gccccctcac ccacactctg gacgtgtcta gcatgacaca ccaaaccatcg agtggtaact 360  
 gatcatactc tcagaccgga ttctctcacc ctacgttgac atgacgctcc catagcctat 420  
 ggactccctg agatatcggc cagatcagct ggcgcgcaga ccttcaaa 468

<210> 33927  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 33927

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 ttactcttgg ggagaccatg gcaatttaat aagagggcta atcatgatgg tttcaccaac 180  
 aatatctctc tcacggatca acgcacaaaag atgtgctcta accattgagt ccacaagaag 240  
 tgtgtgagga tcaaagacaa atgagagaga taattcttca agaccagaga gacatagaaa 300  
 acagagccaa acacttgaga gttcaaaaag tgacgacaaa cagagggaaa cacacgagag 360  
 gacacagatg agtgaaacac ttg 383

<210> 33928  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33928

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 gtacaccct tgcctttttt ttggtgattc ttnttcgta aagttacgga aacttacgaa 180  
 tttcgtaacg atataaagag atttggtata tagaccgtgt tgatatatag accgtgttga 240  
 tatanagaaa ttntatttag cattgttaact acggtttaca ataatgccat anacttgaaa 300  
 atcctgatga gtcattagag acatctaaca acaactntca naattgcccc atgtgtggtg 360  
 tcacttgta gtgttaggat tcaacaagcg attcttctca natttcagcc agcccgcatc 420

aataaacctt gcacctt

437

<210> 33929  
<211> 200  
<212> DNA  
<213> Glycine max

<400> 33929

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gaacgggggg atgaattaat tattaatgtg tcctgactaa ctaaaaatta tccctcttaa 120  
tattactaga ttcaattacg cttttactac tacgttaaga aactaaagaa cagaaacaga 180  
cacttagcca aaagtacaat 200

<210> 33930  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 33930

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tttcattaat atttttttat ttatttatta tcttataggt atgtagaaaa acctgaaaat 180  
tattctgtca taggaacaaa atgggttttt agaaataaat tagatgaaca tggcatagta 240  
agaaacaaaa caatattgct ttatccattg ctaaagcgga atatatctct gccggcagtt 300  
gttgtgcaca gattntatgg atgaagcaac aattatctga ctatggtatc cttcttgatc 360  
acatacctat tangtgtgat aatactagtg ccataaatct atccaaaaac cctgtacaac 420  
attctcgaat 430

<210> 33931  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 33931

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ataagcttaa agatcaagaa caattgatga taacaaagat gatgatttca agactcacat 120



atcgagttca cgatgttcaa gattgaatca agaacactct atggctcaag aggaaatttg 180  
 atttcatgaa tccagaatca acattcaagg ttccagcttc tccgaatcaa tatcacgatt 240  
 catgactcat gattcacgac tcatgagaag acttaatcct gtatagtact aaaaagtgtt 300  
 tcactaactg agtatcacat ggc 323

<210> 33932  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 33932  
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 gatgaccatt tgtcctaata tcaacacatc ttccaaagat taagattatc tgaagctcat 120  
 ttgcaaggct attaactgca ttatatattg taacaacttc atgacatcta tttttggcac 180  
 agtttcattc aagatacata tcgtaataac ttcattatct ctatgcttgc cccatgagtt 240  
 ctttacatat gatttattca ctcggcctta cgttaagact acatgtgc 288

<210> 33933  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 33933  
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 ccagctcatg acgttaaaga gtctatctcc ctgctttaat tttgttcttt agaactcctg 120  
 cttttattta tttgcctatt ttcttgaata ttatctgaat ttgcctatct atctgtgacc 180  
 ataggagtct aaaaaatata tacatgacca ggaatgatca aattttgcaa aacaataaag 240  
 gggggttagct cgcttgcgca agcatgtctg 270

<210> 33934  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 33934  
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cttccttttc ttaaagcca tctgcaagac attagcacag gttagtttca cacaaaaaca 120  
 taaaaataaa actgaaatth tgatatgtgc ttagcgaagc atgtcgcgct tagcgcgcct 180  
 tataaaatth tacttatggg ataagcgcag tagactcgca cttatcctga atacacaaaa 240  
 tatttcttct gtacattaag cttaccgcag caagctgagc ttaacctaag tccacaatct 300  
 ccaaaataga agagagttgg agcttagtgt agcatggcgc gcttagctat cgttatcaga 360  
 atgacac 367

<210> 33935  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33935

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 tttgatcatc ctactaggac gactgagaaa actgggggcaa ataaagaggg tgaggatgag 120  
 ggagaaaccc atgctgtgac tgccattcct gtacggccaa gtttcccacc aaaccaaca 180  
 atgtcattac tcagtcaata acaaacctcc tccttaccga ccaccagtt atccacaaag 240  
 gccatcccta aatcaaccac aaagcctatc tatcgcaactt ccaatgacga acaccacctt 300  
 tggcacaac caaaaaaaca ccaacaaaaa ggaaatttgc agcaaanagc ctgtanggtt 360  
 caccatcat tccgttgtca tatgctaaac ttgatcccat atccactcaa t 411

<210> 33936  
 <211> 236  
 <212> DNA  
 <213> Glycine max  
 <400> 33936

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 taaataacat aaattgacta aatggagcgg tctgtctctc atatgttact tctatagttt 120  
 tattacacac cctttacaat tgactccctg actcggaggt cattttcact ctaatagcca 180  
 agcctttaa caaaattcag aactgacttg gtcgacctca gtgggtggagg tcttaa 236

<210> 33937

<211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33937

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 gcgtgtccga tgacattcgg ggggtaccata tggttattcg cacctttcgt caaccaaggc 180  
 gaatgagtcc gatgatatcg ggatgatgtt ggtcgtccga ttctgattat tctttacaat 240  
 cttttcagct tttactttca tcatccagag acattcaatc ccgacgacgc ataagattct 300  
 tctctgctat gcagggacga tcgagttcga tagcatgtgg anacgtcgtg gctatccctg 360  
 tttatcgc 368

<210> 33938  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 33938  
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 ttctgtcaa gtgagtgtct ttttgcacaa aacaaatcaa atgtgatctt ctgatcatct 120  
 attcctatct ccagattacc tttccctata tccaccacac aattggcggt tagcatgaag 180  
 ggacaaccta aatcagagg ggattcagca tctcttcaa tgtccatgat cacaaagtcc 240  
 acagtgaag tgaattgtcg caccttgacc aatacatctt caaccatgcc ataacgcctt 300  
 gaaatgtaac gatttgccag ctgcaattca ttcttgttgc ataatttcag ctctccaatc 360  
 ttttgcacat gagagcggat caaataatac ta 392

<210> 33939  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 33939  
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 agccaccgca tggttttgac tccttgaatc caattcattc tgcaccgta cctcattctc 120



[illegible]

<210> 33945  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33945

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 agacttttta ctctctggta atcaattacc agattattgt aatcgattac cagtagcaaa 180  
 atggatttga aaaagttttc aaatgaattt acaacgttcc aattgatttc aaaaaagctg 240  
 taatcgatta caatgttttg gtaatcgatt accagtgccct ttgaacgttg aaattcaaat 300  
 tcaaattgca agagtcacat cttttcacat aaaagatntg tgtaattgat tacattgatt 360  
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<210> 33946  
 <211> 357  
 <212> DNA  
 <213> Glycine max  
 <400> 33946

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 aatataatta tctttatctt attccgatga tattctttat ctcatgaaaa attttaacca 120  
 tgattcttta ataaaagaaa tgacatttat tgatttggca ctttttaata ggaaccatgt 180  
 tctacagca taagtgtctc agtttgaata gctctggatt tgattgatct tgaatccctg 240  
 gtttggtatt atccaattgt gctttatctt accaccaccg ccttgcgctg gcacgtgtct 300  
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<210> 33947  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33947

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 attatcaaat gaaacttatg gtattttact tagcttggtt attttggtga atacttaaag 180  
 tgcttcgatt ataattctta cttgggttgt tgtgattagt gaattttaat ctcatattag 240  
 agtgcctctaa ttaattntaa cttttttttt catgcacaaa ctaaaaggga agtatgtgtc 300  
 tttctttata ttaaactctta aaaagtacaa tacggaattt tcanaatttt actatatagt 360  
 cattagattc ccttcatata taatattca 389

<210> 33948  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33948

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 aatctctcga gagcattcct tattcaattt cgagcgtgtc gataaatcat gcgcctgaat 120  
 cggacattcg tgtgacaagt tatgactatt tgaatttctc gagagctgcc ggttttcaat 180  
 ttagagcadc tcgatatgtg atgcgccaga atcggacadc cgtgtgacaa gttatgacca 240  
 tttgaatttc tcgagagctt tcgatgttca atgtcgagcg tctggatata ttatgcgcct 300  
 gaatcggacc tccgtgtgac aagctctgac catttgaatc tctcgagagc attcgttggt 360  
 caatatcaag cgtctcgaga ttatatgcgc cttgate 397

<210> 33949  
 <211> 336  
 <212> DNA  
 <213> Glycine max  
 <400> 33949

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 agcaagagtt gatgaatata gccaaagatat taggctgtag ggatattcat tgtggctcct 180  
 tccatatata agtcgttgca taaattgact tggatcacat tagctgaaaa aaacctagt 240  
 tgggatggat aaaagacaat tgtgatgaag ggtctttgag ggaccacact actacaaaag 300  
 cagcattcta agttgggttat aaacggttct ctatgt 336

<400> 33950

<210>	33951
<211>	315
<212>	DNA
<213>	Glycine max

<400> 33951

<210>	33952
<211>	390
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      33952
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14141



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aacaaaaaaa aaatgttaga taatatctca ttctatttcg aanagaaaaa tatattaaaa 360  
ttaaggtgaa taatgatata tacatataat 390

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<211> 409  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 33953

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ttagatgagg atggattaat cccaaactaa attaggaaag cagatacacg ctctatcact 180  
gaagattgag acacccatga gagcttaagc tcaagtcccc attacaaaac cttcattctc 240  
aacctataat aaatgtggga ttatgcatgt tccaagagaa tgcattattg atgaaagcta 300  
gtggcaacca tggatgagat caactttggt aggggaggaa ataattctta tagttagtac 360  
cccaacaatn tcaatcanaa atagggcttc aggcagagtc agggaatgt 409

<210> 33954  
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<213> Glycine max  
<400> 33954

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aatacgtagg catgcgccat tacttggttt gcatagaaga aatgtgacga ataaacgtgg 180  
acaagttctt agaaagagag catcgagatc acgaagattg aaacgattct tgtgatcttc 240  
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tataaaaatt ataacaaaat atttatatat aacatactaa ttatacatt 409

<210> 33955  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 33955

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 tgtcattact cagccaataa caaacctcct ccttaccac caccaatta tccacaaagg 240  
 ccatacctaa atcaaccaca aagcctgtct accgcacttc caatgacgaa caccaccttt 300  
 agcacacacc acaataacac caacaaaaag gaattctgca gcaaaaagcc tgtaggggttc 360  
 accccaaatt cggtgtcata tgctaaa 387

<210> 33956  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<400> 33956

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 ttgtgacact ttttacttgt gaagtcgagg ttataactac aacttcctgc acatgtcatg 180  
 ccatttggct aagaagattg ttggaggaac ttcagttgct gcagaatgaa agcaccaaga 240  
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<210> 33957  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 33957

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cctgtgatgt acctaagcat gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240  
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<210> 33958  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 33958  
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 ttattgtcaa tgcggaaagt attttgcgct tcaactatcca cgtttacaca ttattgcacc 180  
 ttgtgggttac gcgagcatga actactacca atatatagat gttgtttaca caaatgagca 240  
 catcttaaaa gcttactccg cacaatggtg gcctcttgtg aatgaagcgg ctattcctcc 300  
 ttctgatgac gcatggacac ttatccttga ccaactacaa ttcgtgcgat acgttggcca 360  
 acatcaacaa ggataaggaa tgagatgga 389

<210> 33959  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 ccgtatgact catattatgt aatttgtatg agttaattcg tatgactcat gcgggatcac 240  
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<210> 33960  
 <211> 320  
 <212> DNA  
 <213> Glycine max  
  
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 gaaatttcct ttggggaggt catcaagagg ccaacaagat tccttgggtg aagtgagaca 180  
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<210> 33961  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33961  
  
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 taccaaggta attactaatg aaagtatcat ctttattata tatttcatta attaaggata 180  
 tacatattag ttaattcaaa atatatcttc cctatcattg acgaaaaagg gtcaaggagg 240  
 aataactttc aaaaaagcat tttttttggt aagaggtttt tttttctttn taaaaaagta 300  
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<210> 33962  
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 <212> DNA  
 <213> Glycine max  
  
 <400> 33962  
  
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aaatcctggg aaatatgggt taggctataa acccactcac gcggatataa agagaagcat 180  
cgctgggaga aagagccgtg gtcaaagctc gcggctgaga caaaaaagtg aaggaggccc 240  
gccctgccac ataagtataa agctta 266

<210> 33963  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 33963  
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ggagtgggat cacagcattg aactatgttg atcggtccaa tgggatgatg gttttgattg 120  
ctgcagataa agtgtgtcat tgtgagtttc tgggcccatg agttaaacta taacgactac 180  
aaaaaatatt gtcgtatctt taagggccaa aaggataatt aaaccttcta tttctttata 240  
attctttttt accacgggtt atatatatgt agcagtttat tctaaacaat ggactacgtg 300  
tgaaatcttt gaattctatg taagacatgt tatttcaaatt ttctcattac gtctcatgtc 360  
aatgatgcat gctccattcg aattctatgt ctaatt 396

<210> 33964  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 33964  
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gattacaatg agaatacaac atcaaaatga agttgtacct tagccagcat cataatgggtg 180  
tatttgagga gtctgagact gagaacatca gaacgatact ctaatgatcg accattatca 240  
tgactcgaca tattatgaga cgactacgtt agaatgacgc atcgtagtct ctcatgccgt 300  
atctatgcat cggaacgatc aagcatctac atgtcttcca tatgaaatca cagatgatag 360  
ct 362

<210> 33965  
<211> 372

<212> DNA  
 <213> Glycine max  
 <400> 33965  
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 actctttttt tatagtacaa ggaatattct atgcgtcttt tttatctata aaagattttca 180  
 ttgcattttt caaagcttat ttttgactta taggccttat gttttggtat accgtatact 240  
 tgtaccaagt tctattaaaa taaattgggt attacttttc ataaagagta cagatattct 300  
 tatgtggcaa tgccaatttt tcttcataat acataaccta ttaatacttc aacatttttt 360  
 actcctttat tt 372

<210> 33966  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 33966  
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 ataaaacata gaacataacc catatgtttc atacatcata tatataaaaac atataaccca 180  
 tacatcgcat atatataaaa catacaagta gcaatgatat gggtatcacc tctaacaat 240  
 aaagccaaat catgacatct aggatgtatt taaaattgca acccaatata acttacaggt 300  
 cgcccaaat taaactacga catgtacgct gcaaaaggga ataaaatana tcatagcaca 360  
 tattctatat ctaanataac aataaactaa gggtcacaac 399

<210> 33967  
 <211> 364  
 <212> DNA  
 <213> Glycine max  
 <400> 33967  
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<210> 33970  
 <211> 357  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33970  
  
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 tgcacaatgc aaaacaaata tcaaattgtac tgagatgcaa caatcaagtt aacaaccaat 180  
 acaaattgcta ctcaaggagg ttgggcatgt aaaagccaaa acatcttcta nagatccttc 240  
 anacttttcc tcgagcttca agcttttagcc ttaggttggt ccatgttgct catgtttgct 300  
 gctccctatc tntaacaccc gcggnntagtg atntcataat cactaatacc tatgatg 357

<210> 33971  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 33971  
  
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 atcatcatgg aacgtgtctt gcccgattta tgccttatca ctcttacatt cacaatccaa 180  
 ggaagaccat catcttgaaa accaaagaca tggaactgaa taacaagaaa ataatttatg 240  
 agaagacgat aaccgtacat acctaccttc ttatgtggaa acagagaatt gagatagatg 300  
 agacangata acacgattta tacaacttac acaattgcct ctagatacca aggagtattt 360  
 agcaagataa gaacagatag c 381

<210> 33972  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
  
 <400> 33972  
  
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 gcgggttttat ttcattgccgt tatgacaaca atattctttc tcgtaataat gtgcgagaag 180  
 aaaaaaatta ttttaaaata atcatcttct aattttatag tgtaattata attatatttt 240  
 tttacttata tttcttataa cattaatata aggaatacaa aaatttaaaa taaaataata 300  
 atgataacat taattttata aaaattatta ttctatctta tatattttatt ggggttttggt 360  
 tatctgtata caactaacta taat 384

<210> 33973  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <400> 33973

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 ttagttggac atctgttgag tatgtaaaca gcagtgtaga ctgcttcagc ccagaatttg 180  
 ttaggtagtc ccttctcctt gagcatcgat ctagctatctt ccataactgt gcgattcttt 240  
 ctctcggaca ctctattttg ttgaggagaa tatgagactg taagttgtcg ctcaatgcct 300  
 tcctcctcac aaaatctttt aaactcgcga gaggtgtact ttttgccgcg atcacttctt 360  
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<210> 33974  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33974

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 ttaaattttg agagaaacga ctatcattta gtactgattt ttgcgtgaat ctctgaagta 180  
 tggactgaat gcatgaaatt gaggatgatg aaggccatgt ttgattgtga tagccactta 240  
 gccaaaaagc tgaccatgtg cttgaatgat ttacccttg caccagttt gagctgaata 300  
 aattattgat tgattgaatc tggactctat acagtgttat cttctgctac cttgacttan 360

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391

<210> 33975  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 33975

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aatgcgaaaa gtagagatcc taaggctgca aactcgtaaa ttccgtgggt atggcttttg 120  
aaagggggga aaagaagttt ttgaatgcaa aaacgtcccc cctttcgtca cttttatatt 180  
ttggtgcatg ggtggctcgc ccaggcgagc taacctgcac tttttttttt gagaggaaca 240  
ttaaccatgt cccctccttc cttatgggtt agtgttttgc ctatttgagc ctactcaagt 300  
tagaattagg cgtaattac taaaaacaaa caatggtagt aaaatactgt gaactcatag 360  
gataact 366

<210> 33976  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 33976

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ggaacaactg aaatgtttga attcccttgt ttgtggcagt tgcttcttta taagctgtca 180  
ctgcttagtt gcttttatcc tggaaaacac catctggaat gccccgtatt aaaatgcttg 240  
gatgtgtcct attgtcctaa gttgaagcta ttcacatcag aatttggaga tagtcccaaa 300  
caagcagtta tagaggctcc aattagccaa ctacaacaac aacctctgtt ctcgattgat 360  
atgtgacaaa acattatcag ttaaactttt tgagc 395

<210> 33977  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

0054101500

<400> 33977

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gcattctcat aaggtcgagc cctttggtac tagtacctat tggtttgttt tcataagact 180  
caaagtcctc tatcatttac attttcaaag actatcgtag actttcatca tgcggagaca 240  
attatggtca ttcacacctt tttttgcctt ctagagacaa tcaagtcctg tggcagcgcg 300  
agacaaatta tggtcacccg ctntcttttc cttccggaga caataaagtt cgttggcaca 360  
cggagacaaa ttatggtcat ccact 385

<210> 33978

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33978

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aagctcacc ccatgacaaa aaaacatgaa aataacaaaa aaagtcctta ttacaaagac 180  
aactcaaaat gccccgaaat acaaggctaa aaccctatac tactagaatg gccaaaatac 240  
aaggcctaga caaaggaaaa acctattcta atatttacia agataagcgg gctcatactt 300  
agcccatgtg ctgatattct accctaacgc tcatgagaac nctanggcct ttccttgat 360  
ctctagccca atctacttgg agtcttctag 390

<210> 33979

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33979

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gattcaaata tctaacacc ctattaatca atattttctt taaaaaagtg agttaagcac 120  
aaccaaatgt atttacctct cgattggatg catccaatga ttataactg gccctcctaa 180

tttcacttct ttaagaacat gacaagttaa atggaccatc gatatgggta ataggatttt 240  
 caaatggcaa atagttagca cagtttgatg ttgcagcttg tcaagatctg atacattaaa 300  
 tcttttatcg aacaaactgc gtgagcatga gcaaaattct actgacatta cagtcaacga 360  
 tggatagaag gaggcaacca gcggtcctat ttccccctct cacgggatct tattattatt 420  
 aaagtaa 427

<210> 33980  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33980

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 atctatctta ctttttactt aagttatgaa ttcccttaat gacaatcttc ttaaataatta 180  
 attcaaatga agcaacttga atatgaatat aaagcaataa taaataaagg agattaacgg 240  
 aagagaaaat gcacactcag ttttatactg gctcgggtcac acccttgtgc ctacgttcag 300  
 tccccagca acccgcttga gagttncact aacttgtcaa ttccctttac aagttctaaa 360  
 caca 364

<210> 33981  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 33981

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 caatggcgggt aatgacggac cgaggcagaa ccgggttgag ggagtaaagc tcaatgttcc 120  
 tcccttcaaa ggtagaagtg atccagatgc ctacctggac tgggaaatga agactgagca 180  
 cgtatttgcc tgcaatgact aactgatgc gcagaaagtc aagctagcag cagctgaatt 240  
 ctccgactat gcccttgttt ggtggcataa ataccaaaga gaaatgttga gagaggaacg 300  
 gcgagaggtata tacaatgga ctgagatgaa aagggtgatg agaacaaggt atgtgcccac 360  
 tagctataac agaaccatgc gacag 385

<210> 33982  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33982

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 aggattgata taatgggtggc agatcttggtg ttcaatTTTT tttttgttcg atttatgaag 120  
 tcaatTTTcat aatataaata aacatTTTgc agTTtaattt acaaaacata ttagTTtaaa 180  
 cacatTTtgaa aatagatTTT cgaaagtgtt gaatctacac tttggaaact tagTTtctag 240  
 aagtacaagc attgTTcaaa tacacaatta gagtacctta ctgaatctnc atgctccatt 300  
 atgtatgtat tcccctcgtc actaaacctc tttggaccca ntgttctcac atcaagacac 360  
 catggcattt gagactcatg gaccacccac atgc 394

<210> 33983  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33983

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 ttttaattata ttattattat tttttcaaga tattttgatt attttattat tattttgcct 180  
 ttttttattt aatcgagggtt acaacgtgaa cgatcggttg gattttattt taacagagat 240  
 taaacgagat tacaacacan atgatcggtt gaagttcatt ttatcattta ttaggcgaga 300  
 taacggctta cataaatggt aaaaatatcg ttaacagcgg aagaaaagaa natcaaaagt 360  
 gaacgagatg aagatgaaag ccaacaaaac aagaaatgaa ttgaaagtct cgg 413

<210> 33984  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 33984

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 ttggcgcat agtgaaagat aaagacacca agacttttct gaagcgatta tcataaaagt 180  
 tagttatatg gaattaaact aattatTTTT aattcccttc ccctatagag aacgatggca 240  
 atggccggct atgacaagtt gtctactaga tgtatgattt agaatgtagt cttaacttta 300  
 gattacttat agctttctgg tgtcccat tttttaatcg gttatcaaga tccattgac 360  
 tgctactatg ttatacattg catcaaccac aaa 393

<210> 33985  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 33985  
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 acttagtctt tgtgtccttc agagacttct gagaatcctc tgccagttgc aacaatgtct 120  
 cattccccctt ggcagcctca accaaagctt gttcactcctt tgcatactca acaaggtggt 180  
 cgacctcgtc ttggagagct agagtaaagc ttgcagtggt agtcagttag gtctttaagg 240  
 ccttctcttg ggtctcagcc tcgtttaact tagtctttgt gtccttcaga gacttctgag 300  
 aatcctctgc cagttgcaac aatgtctcat tccccctggc agcctcaacc aaagcttggt 360  
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<210> 33986  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 33986  
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 acgcacgaag aacggcagaa aatcttcacg aaattgctca cggaaacgtc tcggaagcat 180  
 ctgggcttgg attttcttca cgaaaacgtg ttttttact caaaatccct gaaatgcata 240  
 gggtaaaagg tcaggaggct ctggaacagc ttccccatt tataggagaa aaggggagga 300

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agttcacgcc ccctttt 377

<210> 33987  
<211> 391  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 33987

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tgtttacctt acatccataa aacgtcacca tcaattagac caaacttaat tnttatattt 300  
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accaacaaac tntatacatt attntctaca a 391

<210> 33988  
<211> 381  
<212> DNA  
<213> Glycine max  
  
<400> 33988

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ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
caaatattga agaagatgag gaggttaacta tggttcgat ttcttaatgg ttgactaatg 300  
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caatccaagt ggagcaacaa t 381

<210> 33989  
<211> 388  
<212> DNA

<213> Glycine max  
 <400> 33989

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aactgggtgg tgggtaagga gaatggttgt tattggctga gtaatgacat tgttgggttg 180
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tcagaccgcg tttgatcctt ttgccgatga agaccaaate ccgaaagctt gaatgtgcat 360
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<210> 33990  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 33990

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tgaggcgatg ccaattttca agtgtacagg tctctaattt ttgtgtgggc ttggtgctga 180
taaacaagta agttgaaggg tgattatatg aacgcttggg ggtgggttac tacttactag 240
tgctctttat tttcttcata aggcttaagg ggtaggcga tttttgttta tatcggccta 300
tagaatatat gtattcttgc ttacatttat gagtatgatg gattaattta ctttctatag 360
tgagttggag atcacttatt tagaagatca ctcttat 397
  
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<210> 33991  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 33991

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atgaagctgc tcatacaagc ttttcagatc tatgtgacac gctctcacat acccaccact 180
  
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<213> Glycine max

<223> unsure at all n locations

<400> 33994

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ctaaaacaca ctaagctcag ccctcagatc cctcccgatg gattaggtc agcttacaca 120  
acctccgtac gcatagacta cattaaccta cacctcactc cacagatccc tcattcacca 180  
ctaggcctaa atcacaccac atcttcatca cctcacatga agaactactaa cactcaatcc 240  
gcagatccct aatccaagac taagtctcac tcccgcttct atcacgtcct caggcaacaa 300  
taccatcttc cagcctcaa gtcacctacc tatacacaca aaccgggcga tcagaccaag 360  
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<210> 33995

<211> 530

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33995

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cagaccgacc cgttgtatgc aatctctgga accgacgccg atacacaagc gagacgcatg 180  
aagcgaccaa cagtgagcag ccgcaactaa ggctcatcta acaacacaac atggcgctcg 240  
aagcgtcaca ccccaaacca ccccgaggac caccgctcga cggcacgaaa ccaccagctt 300  
gaccgctctg acgaactcga caccatcga taaacaaccc gcgaagctcc gcgacgcggt 360  
ggcgagcgaa cgaaaacact atcgggcaat ccgcaacgcy cacaacacct ccgacgccga 420  
agaggggacg gccgcgcaat accgacagct cctgacaca acacacccaa aacacgcacc 480  
gcacgcagcc tctaggccgc acaccgcacc caaacaacac accaacaacg 530

<210> 33996

<211> 404

<212> DNA

<213> Glycine max

<400> 33996



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tcaattcccc aacaataaaa gacttcta 388

<210> 33999  
<211> 441  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 33999

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ccatagaatt ttatcaggat tgtgtgagag gtaaattgggc atggaaaatt tttttgcagc 240  
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aataaggga tttactgtta aattcgagag tccatcaata ggaggagaaa caatatatga 360  
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<210> 34000  
<211> 321  
<212> DNA  
<213> Glycine max  
  
<400> 34000

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gacagctttc caggttctgc tatccagtga tttgacgaca gccaccatcc ttgctgtcca 180  
gtatccatag ttggttccat ctacgattgg tggctgtgtg actgtgcctc cttctatctc 240  
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<210> 34001

<211> 370  
 <212> DNA  
 <213> Glycine max  
  
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 ccagatccga cgatgagtc ctcgaaggta ctaataccca ggacttggcc gtcaattttg 240  
 agcaagaagc gggtcggatg gagagtgaag aggacgacga tgtggggctt catccacagc 300  
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<210> 34002  
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 <212> DNA  
 <213> Glycine max  
  
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<210> 34003  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 aaaaagtata ctgtaaacca tattaacata ccacacaacc ataatangtc atatgtacta 180

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<210> 34004  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 34004

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acgaaccagc tattatctat tgattactga aaatagtgtc tcagcactct cctctactat 360  
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<210> 34005  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 34005

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gaatggctcc gcaacgtcgt cgttttagaga ggacgagccc gaatacgttc ccgaaagggg 360  
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<400> 34006

<210>	34007
<211>	386
<212>	DNA
<213>	Glycine max

<400> 34007

<210>	34008
<211>	388
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      34008
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 ttctatccgg agccatatta gaattgtact gatactgcct aatgaaggca accattangt 240  
 tcttccaaga atggactccg gaaagtttca gattcgtata cctgggtgaca gctgccccaa 300  
 taagactttc ctagaagaga tgcattaatt tatcattctt caagtatgcg cccatttctc 360  
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<210> 34009  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<400> 34009

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 attatatatg agtaatacct ataagctcta tacatatgac atgcatatat atatatatat 180  
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 <212> DNA  
 <213> Glycine max

<400> 34010

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 ctgatgccgt atttctcata gacattgtcc tcgacactgt cctgatcggc tgcaagggcc 300  
 catttctcgt tgagggtctga tttaaaccctt cttcatctct caccacgat ctgcagaaac 360  
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<210> 34011  
 <211> 432  
 <212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 34011

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ccaatgcgcc tgcgtgtgcg cgtctccgtg ngtgtgtggg tgagaggctg cacaatgtgc 360  
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<210> 34012

<211> 343

<212> DNA

<213> Glycine max

<400> 34012

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cagtggaaaca ctacaatgtt gacatgatta taatattaat aatgttaaact ctctgcatag 240  
cgatggctgc ttatggcggg aagccacaat tctgtcatat ccacatgga catggagtgg 300  
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<210> 34013

<211> 250

<212> DNA

<213> Glycine max

<400> 34013

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<212> DNA  
 <213> Glycine max  
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 ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180  
 ccccatcaat cctctcaagc ttccccaaca tccaagtaca acaacattca aacagcacia 240  
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 atcacagctt ttctcactta aagaccccaa taacaattcc ttcgatccaa tttgttgacc 360  
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<210> 34017  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 ttctttcttc acgccacatc ccatgccttg cgaactcctt ggagtaccct cgcgttgttg 180  
 tcaactgaaac ctcgtgcgat gaaaggcgtg atgctttcgt ctgatggcac tctctcatg 240  
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 ttaacagacg cccctccatg ctagccaaga gttggtgcac aacaaacaat tcttgccg 360  
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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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<210> 34019  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 34019

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 ctaggaaagc atataaagtt tgggtgaattt gggtttgtgt agcaaaagtt atgtaaaaat 420  
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<210> 34020  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 34020

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 attgaggcaa tagacctaaa tatttgggaa gccatagaaa taaggccttg tatacccacc 180  
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 cctatagata gatggtctga tgaggataga aatgagtag aatacaattt aaaagccaaa 300

aacataataa catctgccct gtgaatggat gaatatctca aggcttcaaa ttgaagactg 360  
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<210> 34021  
<211> 452  
<212> DNA  
<213> Glycine max

<400> 34021  
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tcacaagag atgtactctc tcttggtctc agtcaaacc aagtagatgt accctccaat 360  
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<211> 400  
<212> DNA  
<213> Glycine max

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<210> 34023  
<211> 309

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 gttccatcag tttcccaatg aatctttgag tggggcatta gaaacatttc ntaacttggt 240  
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 <213> Glycine max  
  
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<210> 34025  
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 <212> DNA  
 <213> Glycine max  
  
 <400> 34025  
  
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 <212> DNA  
 <213> Glycine max  
  
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 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 <211> 348  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34028  
  
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<210> 34029  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34029

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aacttgag 428

<210> 34030  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 34030

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ctacaactga gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180  
cccatcaat actgtcaagc ttccacaaca tccaagcaaa acaacattca aacagcataa 240  
gctatcacag ccaaacaata gcagagcata ggcagaaaac tctgctcaaa caccaaccaa 300



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329

<210> 34031  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 34031

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<210> 34032  
<211> 317  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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ataatagctg acattcttat ttaccacata atcgacgccc attgactgat tatgactcac 300  
atcttaatat tattata 317

<210> 34033  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 34033

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<210> 34034  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 cctaaaaatg atatacaata atcattaatc tcttggcctc ttcataatct tcccgtttat 180  
 gtggacttct tatttactaa gtgggttattt cttaaaagta tttatcaaag cggtagagtt 240  
 ttaaaattat ttatctacta gaggtaattt ttgtcatata aaatgtagaa ggcatgatcg 300  
 tgagtgcagt cttgtgtttt tggtttgtcc actaatagga tgcaccattn tatttgactt 360  
 cttcttttca cgtattcagt cagtat 386

<210> 34035  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34035

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 gtcacgatg agaccatcgt tgtcgtcatt ccattgttatt acaaaattgc cactaggtgg 120  
 cattctaaga cggtcataag gaatgcctt agattctgtg acgtaaaaaa aattctgtta 180  
 attacaaaaa tgccatcgtg tggcattcta aggcgggttct acagaaccgt cttaaaattca 240

ctgtcgtaaa aaattaattt tctagtagtg gtaattgcat ctttcgttaa agatcacaaa 300  
 caagcaacca gaattatatt aaaaccaaca tactgataaa gtggcattgc acganacact 360  
 aatacttcat tgtgaaataa aaataagaac atanaatgcg tggaatataa taa 413

<210> 34036  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34036

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 tacaagagtt accctgagct ctctgatgcc ttgggcaaaa tgtttagctc cttcaccatt 120  
 ggtaactata attaatccat aatttaccat acattaactt tttttatat agaatttaat 180  
 gactgatcat aactttttacg tatcagtatc tagtttgttt tctctttaat ataactacca 240  
 aaagatatgg atcttanatt tgattctgta gaaagttaac taatggtgta tgtgaatata 300  
 aaattgaatc gtgcagctga ttcatggta ttaattattg gtgtgttctt gatataattta 360  
 aggaaattgt gaatc 375

<210> 34037  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <400> 34037

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 ttgttcatgt attaatagaga caaccaccag gacattgctt gctcatataa tgaggccgac 120  
 aagacaaata tggatgcata attgctacat ttcaagcttt ttgagttgta aactgattca 180  
 ctttggcctt gggatttggg gaataatatc agaatgactt gttggaattt cgatactaga 240  
 tatatcatat cattgctcag aaattaatat atgatgttta ttctgatgat gatgtttatc 300  
 aagcctaatt agtttctgat gtggttcaca attaactaag aagtagcatg tagattaa 360  
 caaaaacgaa aacacatata gattcctgtt ataaagcaat tcagtgatc aaaacacata 420  
 attaa 425

<210> 34038  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 34038

agcttatcac ccttaccggc tattaaaaaa tcttttaagg gaagttaaga gcatgatagt 60  
 gtgctgatac cattaactag tcaacagggt cttgagcggg ttgagggcat caatactata 120  
 tttggaaaga cccaaaagaa gaaaaaaaaa agtaaaactt ccatatggaa gatgaggctg 180  
 atattgtttg atcttccata ctggttcgat ctagatgtca tacattgtat tgatgttatg 240  
 catgttgaga aaagtgtgtg tgatagtgtc atcgacaatc ttcttaacat tcaaggcaag 300  
 acaaaggatg gtttgaatac ttgccaaagat ctagttgaga tgggtatacg agaccagtta 360  
 catccaaggt ttgatggtaa gaaaatatac 390

<210> 34039  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34039

ntgagaattg cccaaactcc ctctcccttt ctaatttcaa gcttaaatag gtgaccttgt 60  
 tgggtgcttg acgcttagcg caactccgac tcaacttagcg tgcataagtg aatttcggct 120  
 tggcgctcgt cttctcgctt agcggatcca tacaagtggg gtgcttagcg agatgagccc 180  
 ttgcttagca tgtgtgtcta gctcatcctc attccagatt cttcctcgcg ctgagccgca 240  
 agagtgggtg gctcagcgga tggctcgcta gcgagaagtt gaaaataaac acttcataaa 300  
 cttgcctaataaacctgaaa ttgaaaggaa atgattatta aatacataaa aatggagtag 360  
 taagtactta ttacctatat ttaacanana gtaattacaa cactacaaaa taaccataaa 420  
 tgggaggagt tagatacaat 440

<210> 34040  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations



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atcactaaac aacaaatgat g 321

<210> 34043  
<211> 411  
<212> DNA  
<213> Glycine max  
<400> 34043

tactcaagct ggtgcttctg ctacgaagtg gagctggagg aggaatatat tttagatttt 60  
cttccttagc tcatgattgc ctgcggttct tgtgccatgg tcctaggtaa cgaaccttcc 120  
tttggttgcta ttattattag ggaccacttt agatttaaac tctgttggtc ggtctgattt 180  
catttgacat tctgtttccc ccatcttta ttctgttata acttaattct gagcactttt 240  
ctaatttata actaaattta acaatcgaca aatgagtggc acgcgatata aaactccctt 300  
tctcctatct ttttttctca aaataaataa atcctcgatt accgcattct attcataaga 360  
tactttcagt taaatttgga tcaaagcacc ctcgatatatg attagaatat g 411

<210> 34044  
<211> 385  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 34044

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tagtggcttt cacacatgag gtatgactta atttgtttca cgtacttaat tatggattaa 120  
taatcatcac catattatac tcatgatttt ttttattgat cagaactcgg aaaactggaa 180  
gtcctctcat ttgacaaaag gaactatcat ggatccaaat tacagcttgc ctcccaatat 240  
tgctctgata actcttgagg tagagcaact tttccaagga tatatatcta tagtctataa 300  
cactcttgac tctntttgtc tcanactaaa atgttctgca tgagttggat ggtggaattg 360  
tgctctttcc gttggcacat ctata 385

<210> 34045  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34045

tgcccttgaat ttctactttt tcaggtattg tttgtttgag ttatattagt ttgttaaadc 60  
tcattttattt taaattttatt cctctttaaac tatagggtga caaaataagg agaagaaatg 120  
attggaggag atggatcatg cctgggtggc aggttcctaa tgtagaggt tctcaaaccg 180  
ttggacagct ggctgaacga gttcaaaaca ttactctgga gagaactaac aataacgatg 240  
ctggagtatt agatgtttca cagaatagac cttttggga tttgaatagt caatatctcc 300  
attccactag cgagggtact gctcaagtcg gtattcaagt ttcagatcat tctatttctg 360  
caagaaatta gagctgcaga tgttctttac aaacattttt tgaagaatat tcttc 415

<210> 34046  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34046

agcttatcaa acaaaggtgc tgctttgtct tggggaagac ccttctccag atatcccaac 60  
ttgctgtcag tagattctag attagtttgc actaggatag aagtggagaa gtctaaaatg 120  
gtagtaggggt ttggtagcag tacatactag ttatatgcat attgaaacaa tgtactttgc 180  
agtgtctccc cagatgaaat ttgctactg ataccttcag gcacaaagta tatagtcaat 240  
gcttattgga caatatagtt agtacttaca agagtacatg tagcttaaatt tcaatactta 300  
gagcactata gcacatacca agataagagc gctagtacaa gaagcattct agccttacca 360  
gcatanacac gatcatanac tct 383

<210> 34047  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 34047

cgtgggtgcc tcggcatgga tacctgcaaa tcggttctcc cgctgggtgg ggtctcgat 60  
ggcggcgtgg acacgctcat atgtgtctgg gacttgaaga ctgatgagag agtgcagact 120  
gctcacggcc atgctcgtgc agtgactcgc attgcctttg acgatggcga tgttgtctcc 180

ttttctgttg actcgtaggg cattgcaatg ttataatagc ttttaaccatt ccatttgttt 240  
attatta 247

<210> 34048  
<211> 396  
<212> DNA  
<213> Glycine max  
  
<400> 34048

agcttatctt ggatattttt catctacaga acagaatata cagtatttag caaatatttt 60  
caaactttgt aatgcagat accaacaat caaaccttga catatgacag acctaaactt 120  
ctataatctc ataaattgct ttttccacat ctaactctta cttctcaagc tgtatgtttg 180  
catgcaatcg agatccttga aatgaatctg aagtattacc atcgtttagac gtgataccaa 240  
catctgcata aaacataaag ccacaattct actaaggaaa ttgagttcaa caattaattt 300  
ctacactcta aactccggga atcatagaga acatatatta attacatatc aaaaaagatg 360  
gaaataagag aagacactaa cagctacaat tttcta 396

<210> 34049  
<211> 424  
<212> DNA  
<213> Glycine max  
  
<400> 34049

gcttgccaca aacatcaagt tctttgaatc ttttggatat tgtttctatt tctgccttga 60  
tgctcactta gggctcagat aacccttggt cacaaaaact tagtctcaa caaacatat 120  
ggattgaatc caatgggatg caaccaccaa catatttgga tagctcacia gcacaaggaa 180  
gaccacgctt gggtctcacc acacaaccac aacttgaagg attcttgcca gcatagtcaa 240  
cacgtcttat ttcaacaaca atcttattta aagcatacct tgaaaccatt ccaagaagcc 300  
tcttgataaa cgtttttttg aagacatgac caacgacatg tgtacttggt tcaaatgatg 360  
ctttaatctc cgtgtgctgc aacgtaatca tggtgttcat ggcattctac acactgcata 420  
agtc 424

<210> 34050  
<211> 374





ccagatttac ctgagtaaac tctatcagag agaaatcaga aacctttgaa gtattcaaag 180  
 agttgagtct aggacttcaa agagagaaaag actgtgtcat ccagagaatc atgagtgacc 240  
 atggcataga atttgaanaac agcacgttca ctgaattctg ctcatctgaa ggcactc 300  
 atgagttctc tgccgccatt acaccacaac agaattgtgat agttgagatg aaaaacagga 360  
 ccttgcaaga tgctgctcgg gtcattgcttc atg 393

<210> 34053  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34053

taaacattca atttcgaggc tctcgattat tacgggtatt taatcaagca tccaagaaaa 60  
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 attacgggac tcaatcagac atccgagtaa aaagttattg ccgtttgaat tggctccgag 180  
 cttcaacatt caatttcgag cgtctcgata tgttacgaga ctcaatcaca catccganta 240  
 aaaacctatt gtcgtttgaa tttgctcaga gattcaacat tgaatttcga gggctctgat 300  
 atcttacggg actcaatcag acatccgagt gaatagctat tgctgtttga attggctcag 360  
 agcttcaaca ttcaatttcg agcgggctcga tatattacgg tact 404

<210> 34054  
 <211> 184  
 <212> DNA  
 <213> Glycine max

<400> 34054

tttgccctta aaaatcgggt ctttggttca ctctgatca ctttgatttt ctctctcgca 60  
 cagtccaagc tttcttccaa gtctctaatg acatttcaag ctagtattaa ctacttttaa 120  
 cctcccttac tacagaatca gacttacctt cactcttaa gactcactct tttccactca 180  
 taac 184

<210> 34055  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 34055

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atctttctag tttgtttttt attttcccgc ttaccaagct atcgacgaag aagcatccag 120  
caggcaagat cttttccctt tggctgctat gtatgttttt ttcattacta tttgtctcta 180  
tttgcaaggt tttaattttg tttgttctta tgaatgtttt ttatgagaat cctgaaactg 240  
accaaataca ggctaaaggc ctaagtggag aatgacaaag cccccaagtg gagaacgatg 300  
aaggcccaag tggaaaagga tgaacgcca gaggcagaga cactaccaag actattaatt 360  
gttgctgaag gccagatta aattg 385

<210> 34056  
<211> 302  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34056

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gagggatctg aggatgaagc ttggattgat tcagtctaaa tttaggcttt agatcattac 120  
aaaatatgct tagctgagca acatcttcaa aattgtgatt aggacatttc ctcagcaatg 180  
atttgaatta ctctatact tcacaaaagg gttcttttga tcctttcctg aatgtagaaa 240  
tatctgactn tacattgata tacctagatg gagggaaaaa tctatcaaga actttctttc 300  
ac 302

<210> 34057  
<211> 440  
<212> DNA  
<213> Glycine max

<400> 34057

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gtttaatgag tttatgagca actcaggatt caaagatgt gacatggacc attgctgcta 120  
tggtaaaaaa tatactaata gttatgttat ccttggtgtg tatgttgatg acatgttgat 180  
tgcaggatct agtatggcag aaattaacag gttgaagcag cagttggcag aaaactttga 240

aatgaaggat cttggtccag ctaaacaat ccttggtatg agaattctta gaaacagatc 300  
 agaaggaatt ttgaagctgt ctcaggagaa atatatacac aagttgcttg acaggtttta 360  
 ccttgagat tctaagacca ggaatacccc tctgggatct catttgaagt tttcaaagaa 420  
 gcaatctttg cagacaaatg 440

<210> 34058  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <400> 34058

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 aactctgctt tctctaccat tcaactctgat atttggggac caagtagggg tacatctttt 180  
 gattttcggt attttgtaac ctctcattgat gaatttttca gatgtacttg ggtttattta 240  
 atgaaagaca gatctgaact tttgcctata ttcatgttgt tctttaatga gattgagaat 300  
 caatttgga aatcaattaa gattttcaaa agtgataatg ctaaagagta tttctctcat 360  
 gatctctctt cctttttatc ttcaaa 386

<210> 34059  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <400> 34059

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 gagctttcaa cagcttcttg cggattacca cgaaggcctc atctctgatt ttcaaaacct 180  
 catctactat gcccaatgtc aagggtgactg taatgtattg tggatggtg aggggtttct 240  
 tgctgaaagt catctcgtat ggggacaaac tagagccgga gtggaccgag gtgttataga 300  
 accactccac ccaatttaaa aacttcccc atgaagacgg cttcttatga acaaaggctc 360  
 gaagacattg ttctatgaca cggttcagca cctttgtcta accatcgatc t 411

<210> 34060  
 <211> 510  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34060  
  
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 actcagcct tcggataaag atacctgcat tcttcactt ctcagtactt tttataaact 120  
 ctacagggat gcacatacca ctgtgccata catattccgc cactgcctga tgtaaagtta 180  
 ctcacatcta ccttatcgcc tgattacatc tggcatcaac tctacaaaac atggcttatt 240  
 tgcttattgt gcttattgtg cgcagagtgc ggtatctttg gagggcaaag aataccccaa 300  
 gtatgaaatc tataatgcc atgttgtaga ttccatccag aaatggtaac ttgccggcta 360  
 actgccgttt ctatctaacc attcaatctc tgactagtag tttctcgac gacgtgtccc 420  
 tacgaacata tctttggatg gttgaatcat acttgcgctt gtgcgttgcg tcgctaccta 480  
 gccacacttg gaattttctc tcacaccccg 510

<210> 34061  
 <211> 494  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34061  
  
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 naatancaca gcttgantta tgaacacgct tatgacaaga ttctacgcta ctgnttggag 120  
 cttaaacc aa ttagttaaga gcccctcatt ggtcttagat tgcttatccc ttgacgtcct 180  
 cactgtcnaa cttccatctc tgcccttggt agcagaaaat caagaagacc tctacccttc 240  
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 atctagaaca tgacttaatc tcacacctc tcgcaaggca tcttcttttt gcaccaccac 360  
 tggacatcca aattgacatc ctatgaacct atcgtgctgg gtgggtgttcg gactctacta 420  
 gtggctacca cgcggtacta cccactgcaa atgcgtgggtg agacttcact gggatctaaa 480  
 ctacgcatct cggg 494

<210> 34062  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 34062

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 atttgaggaa ttccaaatgg taaaccaaac acgctatctt gaaaagttcc tgtagttaca 180  
 gataaccag taactgaata atcaagtttg aaaaattcat gtagttacag ataaccagc 240  
 tactcaataa tcaagtttga gtcaataatc agtccaattc taataaatcc ttaatccaga 300  
 tagtcacgtt gaacagaaaa acataaattt ttatgccaaa aaacaaggta taaatgcacc 360  
 agacacaaat gagtaaaata taatttacgt ttaacacaat act 403

<210> 34063  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<400> 34063

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 aattgaagga aaaaaaggga gagaagttga actttgagtt gtgtctcaca agactctcat 120  
 tcatcaaagc tacaactagt gttacgcatt attctatcta tagactaggt agcttccttg 180  
 agaagcttcc ttgagaaaac ttcttgaga agcttccttg agaaaaattc cttgagaagc 240  
 tagagcttag ctacacacac cctctcata actaagctca cctccttgag aagcttcctt 300  
 aagaagattc cttaaagaagc tagagattag ctacacatac ctctctaata gctaagctca 360  
 cctccttgag actaaaagct agagcttagc tacacacccc ctataatagc taagctcacc 420  
 cccatgacac aaaaacatga a 441

<210> 34064  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34064

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 aaaaatgaaa tcggtacatt tgggtatttgg ttttggtaat attatgtgac gaattcaatc 120  
 caaaaatcaa caaatgaatg tagacctcat aaaagtgtga atgacaacct ttttttttgg 180  
 tttttccaaa agtataaaac aaataatgaa ttatgcatag ataaatttta taaaaaaaaa 240  
 ataggattgt ccaagtttga atttcaatat aaaaatacaa ctcatagttt ttgctctgta 300  
 aatattgttg aaattgaatc gaaaactgaa ctatctactt ttaanactta atcgggttaa 360  
 ttatgtgaaa gtcttacggg attgaatggc atcacaacac aca 403

<210> 34065  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 34065  
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 tcgaaacaaa gtaatgggga gcttggcgtg gaagcagctt cttctcaacg ctctggaatc 180  
 caacgctcac ctcaagcact cttctttcat gcagctcgta tgtcaatcaa ccaatctttt 240  
 ttttttttct tttttttata atttatgcat ttttatcctt ttatttgtgt ttcggacagg 300  
 caaccctagg aaccaacgga acaccttcca accgcactgt cgtcttccga ggattccaag 360  
 acaacactga taacatccaa attaacaccc atgcccgac tcccaagggt cttcttattc 420  
 tcgatcagct 430

<210> 34066  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 34066  
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 accaaaacca tatcaccaac ttggtattca gcttcacggc gctttttatc tgctaaatac 120  
 tccatgcatg tttgagcttt ctccaatttt ttcttgattt ctgcgaaaat agcctcgga 180  
 tcagtgcgca tgacattaac aacatcaatg ttagaattct ctgcccaata ttgagaacag 240

ttgaaaggct tcttcgcaca tgtgatctcg tacggggaaa gacctgagct tgagttccaa 300  
gaggtgatgt aagaccactc cacccaacc 329

<210> 34067  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34067

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cctctataaa aactacagtg taactgaaac tctttcggaa tgaaattaaa tgtcatagtt 120  
ccacaaattt ttatgcattt ctctctcttt ctcttactct ctatttctct ctcttctat 180  
tttgtagttt caattcattt ctagtagatg tcatccctct ctttttgtgt actcaaagtc 240  
agaatatgtg tatggccaat ttgagtaatt aaaaaagtt atttggtttt acggcatgac 300  
taagacaaaa tgtgttaggg tgtgtgtgtg tatcaatgcc tattctgttt gagtagtaca 360  
gcttcaacct tggacctgaa ccttatccca tntaccctc tgtgagaata a 411

<210> 34068  
<211> 182  
<212> DNA  
<213> Glycine max

<400> 34068

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cccgaataac aacgggatcc aaacacaaag tcggacgcaa cggacataag aaccaccaca 120  
taagacgcgc cgaacattcg catacagcgg acatgcaaaa aagcgaccat actgcagcaa 180  
aa 182

<210> 34069  
<211> 539  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34069

actagccacc acacgcctaa tgccaaaata tatatacaat aaaananann anaagacgca 60



gtgagactcc tganccntnc gaaaacanaa nacnaagan nnaacacann aactgggcca 120  
 accaacgaac gagcgctac taccacctgg caccataac aagagganca atccgacaag 180  
 cgcgaccag aaacgaaagc acacctgacc agcaacccca tactggaaaa gcaaaccga 240  
 aacaccgacc tacacaccga aaaacgcaca ggcgcgacga cacaacgaa aacgagccaa 300  
 gccgacgcaa acccgagaga actccacaaa ctatacctca tntctaaca ctcaacagag 360  
 aacaaaacag acacacacga acacatgtgc tacaacacac cgaatgacc agacactcac 420  
 acaataccca cccctctcca tcggcaacaa caaacgaacc accaatcgct cactgacatc 480  
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<210> 34070  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34070

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 aatctatata gaggcaatag atttaaatat ttgggaagcc atagaacaag gaccttatgt 180  
 tccctctata gtggccggaa gtgcaacaat agaaaaacct agagcatatt ggactgagga 240  
 agaaagaaga ttantacaat ataatttaa ggccaaaaat attattacat ctgctctatg 300  
 aatagatgaa tactttacgg tctcaaattg taacagtgt aacgatatgt gggataccct 360  
 acaagtaaca cat 373

<210> 34071  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34071

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 gggccatcaa atttatcatg tgttgaccgt aattgattag cccatcaatc tntcggggg 120  
 ctgtacacac ttcggccatg gctttcgctt tggctaatag ttgtgggagg tcttgacttc 180

cattcaaggt caaggtgaac ctatccatac acatagtcgc ttcttgatgc aatgcatcaa 240  
 tcaccctccc tcttgcttct ttctcggcgt acacttgatgc aaaatcctcc actagctatt 300  
 gttcatgggt cacagactgg ttcaactctt ccttcgactg ccctatgata gctagcatgc 360  
 tttgctccgt ggcttccaag tgttgagcca cactcctctt gga 403

<210> 34072  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 34072

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 gccaaagtgat atgtagtttc tgcataaaca ccattctccat tatcttcaac ttaagataaa 180  
 catcaatata ctgctgcagc aaactgccga tgtaggcga tcaactaaaa gacctcatca 240  
 tcttatacat tataagacct atgatggtta gaacaaatgt ccattaaatg aatccacaca 300  
 cccttgcatc ttctggaaga aatatctcct ccattcatttt acgtgaactt acaatatagc 360  
 ttccggagatt caccacactt cttagccatgg ag 392

<210> 34073  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 34073

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 ttagaaaaca agctaagagt aatgagacca ctaatatgaa aactaaacat caaagcatgg 120  
 cagggatata tgcttaattt tgaaaagaga taaagtactt ttttctaaaa aagataatca 180  
 tggagtgaac aatgtgaacc tcacgtagta gccaaaaaga tgatgcttgg tttatgtctt 240  
 gtgcaagaac accatcagat atcatttcat tctccataga gccaaagtaga aatgcttcag 300  
 gcttttgctt ggaggtatca aaacaaaatg tgacatcata tgtgaaggga cttaattaca 360  
 tgctcagaag tgataactaa caaaaaggaa aataatctct atggactatc acatgactga 420  
 ggcacaatga taa 433

[illegible]

<210>	34075
<211>	428
<212>	DNA
<213>	Glycine max
<400>	34075

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<210>      34076
<211>      537
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
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<400> 34076

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cncagagtac cacctgcatt gctgccatct tgttatgaaa taggacactg gaagaacacg 180  
cactagacac ctacatgcca cacagcttga tctgctacga agtcacgctg cgaaattcta 240  
atcccaccac gatacaaacg attctcatgt ttccaaagct caacatatca actagtcgac 300  
cccttggaca ccacataacg acatactcca agtcaacgac ggcataccac caaagcctca 360  
cggatcgctg cgagaccacg tctaaactgg aatacggccc atggacaacc caccaacgta 420  
tgaacaaacc gctggataaa aattataaaa tctcttaagc tcttctcata cctcaaacta 480  
ctttgaacac ttataaggct gggacacata agactctatc ttcaccgtag gaatccg 537

<210> 34077

<211> 284

<212> DNA

<213> Glycine max

<400> 34077

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tttctgaatc ttaacatata tatgactaaa tgaccttgcc atctagctaa tttttgttta 120  
ctttacgaag gtaccggaga atttcgatta acatcggatt ggcccaaaag acacaagatc 180  
tgccttacta ttgctagagg tttggctttc ttacatgaac aatcaagatc tgcctttaca 240  
tatgaatacc cctgcacatg gcacattagc caagccaaga atca 284

<210> 34078

<211> 392

<212> DNA

<213> Glycine max

<400> 34078

agcttcggaa gaaagtgatg aggtacaagc cctaaaggca gagcttgaaa gagcccgagt 60  
agtcgaagag aagttcaagt ccatagccat caaagtctga aaagagtatg atgaactaag 120  
ggacgtcaat atggccaccg ctgatgcctt ggaatgagaa accaagaagg cccaaaagga 180  
agaacacgtg ccagcaaagt tttgaggggc tttatagggc agcaatagtg agctcaagct 240

ccgaagaggt gaaaggaatc atcacgggtc aaaggcatga tcttgaagga cgagctaaag 300  
 gcttacctta ggtcgaaaag aaatttgtcc taacagttaa gcgagactga agggaaatag 360  
 tgggccccgca tcgatgagtg caaagagaag ct 392

<210> 34079  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34079

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 caactcatag gtccgattca ggcgcataat atatcgagat gcacgaaatt gaacaacgga 180  
 agctctcgag aaattcaa atgataact tttctcacgg aggtcagatt tatgcgcata 240  
 atatatcgag acgcttgaaa ttgaacaacg gaagctctca aaaaattcaa atggctcctaa 300  
 cttttcactc ggaggtccca ttcaggcgca taatatatcc agacgcctga aattgaacaa 360  
 cggaagcttt 370

<210> 34080  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 34080

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 ctCGAATTTg gctgccccat gagggatact ttgcaccttg gtagcatgaa aaataccttt 180  
 caatgggatg tatatatgtg tgtgaatata ggtagcatgg aaacacctt tcaatgggtg 240  
 gtatatatgt gaatatatgg catacaatcc cttgcaaagt gtgaatgagt agcttcctaa 300  
 atgaatatat gatggcacat aattcccttt tcacatgcca gtatgtgcat gacgtaggta 360  
 gctttccaat gtgcatatga ata 383

<210> 34081  
 <211> 344

<212> DNA  
<213> Glycine max

<400> 34081

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ctcaattagc tcaattgctt ctttcgacgt ctttagcttt atttttcccc ctgcaaaagc 120  
atctatcaat tgcttggttt gtggtctcag cccacctatg aacatattca attgaattgg 180  
ctcagaaaat ccatgggtgg gagttcttct caataaacct ttgaaccttt ccaatgcttc 240  
actcatacat tcatcatgga actgatgaaa tgaagagatt accagcttta ccttccgtag 300  
tcttggaactc tgggaagaat ttctttacat atttttcaac aact 344

<210> 34082  
<211> 281  
<212> DNA  
<213> Glycine max

<400> 34082

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ccaagccctt actttggagg ggcaactccc accttatgaa gactatcccg ggcaagacga 120  
tggggaacga gatacccatc ttggccccct gctccacctc acagatccgc cccacatga 180  
actaccccaa ccgaacatag tccgccatat cccggcctca cccacacccg taaaagaatc 240  
tgtccccctc gcggaagata acggacagat tgatgcgctt g 281

<210> 34083  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34083

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gcagaggagc acaaaccaca aacccttgcg acaggtacag atttctgatt caccgccagc 120  
tggtttacca agttaaccaa tgcattcagt ttgccttcaa gcttcttagc ttcattatgat 180  
gcagatgggc ttgtagctac ctcatgcact cctctaata ga ctatggcatc atttctggcg 240  
ctaaattggtt gggagttgga agccatcttc tcaattaaat ntctaacttc agtaggagtc 300

atgtctccaa gggctccacc actggcagca tctactatac ttctctgcat attgctgagt 360  
ccttcataaa aatattggag aagaagttgc ctgcacatct gatggtgagg gcaactgaca 420  
cat 423

<210> 34084  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 34084

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aaagtacaca acataaacta gtacatactg aatataaatt agtcatatcc aactacacat 120  
cctaataaca aaataaaaca agaaatgggt cttcactttt cttcattttt atactggatc 180  
tttatcagca gccttccttc cagtgaacct cggtgttggc atgtaaaata aggggtgttgt 240  
tggtgggcca tccacaacag gtgcgtctac tggtgaagtg tgtgaaatgt tcttttgttt 300  
gggtcttggt atgtctagct tataccttgc tactgggtgg aacatcacia tagatgcang 360  
gacctacatg caaatgccan acatgaataa cacttgtaat atat 404

<210> 34085  
<211> 439  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 34085

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ttataacgag taatatcatc cttgtattac aacatgttca atttcccaag tagtatactt 180  
aatgtaataa taaaacttaa tgaataaact caatgtttat tggttggtcca aaacatagat 240  
tttctcaaataaat caatcaatgt gcacatgaat atgagaaaat atcacaatgt aagagtttca 300  
actctgacct gtatgtatac aatcataaag tggaaccaag tcttattctc tctacatgat 360  
ccttgaactt aaatgggtgac atgtccttag tcaaaggatc aatgatcact agcttagtgc 420  
ttatatgctc aatgatcat 439

[illegible]

agcttagcaa	atggttctgn	gtgttgccca	gtttcatcat	atcttccgta	atactcatca	60
cctctatcat	atctaataat	tttcacattt	atgtctaatt	gccctttttac	ttcattgtag	120
taaattttcta	aggcatccat	tgccctaagaa	atctcgggca	gtaagtagac	ataactgtaa	180
cgtgaataat	cataaaaaat	gatgataaag	tatcattcct	ttccgaaaga	actaacatca	240
aaaggtccac	aaatatcagt	atgcacaatt	tcaagaagct	gagtgccttct	tgtagctcct	300
ttctttgtat	gttctggttg	ttatccttta	atacaacca	cacaaatatt	tagatccgta	360
caatctagat	aacgaagaat	tcattctttta	taatcttt			398

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<223>      unsure at all n locations
<400>      34087
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tattttttct	ttaaaccatt	tatccaaaat	taatttcttt	ctaattatta	cttattttta	180
ttattggatt	aaacatcttt	ttgatctttc	taaatataaa	aatggctttt	ggtcctctat	240
ttctaagaga	ttgtcacagt	acatctatat	cactcatctc	gttcgatata	agtggagtta	300
acggtaatgc	agtttgtgac	aatttaccag	cacatcaaga	tataaatgat	atattcatag	360
tgttttaacc	acacaaaaat	tgtccctcat	ccctagtcgc	tgaaacgaac	ttaactccaa	420
acttttactt	tcttacctta	ta				442

14197



<400> 34088

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tcggacctcc gaccgaaaaa ttatgaccat ttgaatttct ctagagctct cgttggttaa 180

tttcaagcgt ctcgatatat tatgcgcctg acttgtaacct ccgatggaaa agcgatgacc 240

attttaattt ctcgagagct cccgttggtta attttaagcg cgctatatat tatgctgccc 300

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<210> 34089

<211> 393

<212> DNA

<213> Glycine max

<400> 34089

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tcaacaacgg aagctctcga taaattcaaa tggtcataac tgttactcg gatgtcagat 120

tcaggcgtat aatatataga gacccttaaa attgaacaac gaaagccctc gtgaaattga 180

aatggtcata aattttaact cagatgtcat attcatgcgc atgatatatc gagacgctgg 240

aaattgaaca acggaagctc ttgataaatt caaatggtca tatgttttaa ctgagagggt 300

cgattcatac gcattataca ttgagatgct cgatattgaa caacggaagc ttttgagaaa 360

tcacatggtc ataactttta actcagatgt cat 393

<210> 34090

<211> 164

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34090

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tagagaaggc ttcacttagg gctaaggagc tttcaaaatc tctcttatcc atggaaccct 120

cacaacctcc ttgaacacca ataacttggt cttccaatga acct 164

<210> 34091

<211> 433

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34091  
  
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 accctaggtc attctagggg tgggtgtggcc ttatataggg ggtcttaatc cacctgngtt 120  
 aaggcccaat taggtcaggt gccctaattg aatcttaaaa ctctctatta agcttcgtga 180  
 tacttaacct tagtcttttag ttactctaaa ttattaattc caactctaac taaatctctt 240  
 tatcaattaa attatttttt tagttttttt taatatattt accaatttgt cattaatgag 300  
 ttgacaaagt caaccctttg ccattgaccc tagtagtcta tgggtgacct tgttgacttt 360  
 ctctaattnt tactagaaaa cgagtatntt ttttctcatt ntctcttta atctaatttt 420  
 ctataattct aat 433

<210> 34092  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34092  
  
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 tgctgatcta caagaatgag gttttggagc agcatgagaa aggctttaaa aagggtgtca 180  
 agcaggccgg attcttccaa aaggaccttg acttggtgtt ttttgacct ttcaattggt 240  
 tttggaaggt tattatgact gaatttgatt gtcaatgttt ttcaaaagac ctagtcaatt 300  
 acccatgcat ttagatttgt cgtgctcatc ttatacatg ttctaaaatc acttaataat 360  
 atggttatta gttttaaaaa taaataatac aacatatg 398

<210> 34093  
 <211> 351  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34093  
  
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tgacagccac cgttttagga gcgctgagca catcaagggg tggtcatttc tctgggagcg 120  
 acgcgtccag ctcaggggatg acgagtatac caacttccag gaggagatag ttcgccggcg 180  
 ttgggcatca ctggttaccc ccatggccaa gtttgaccca gacatagtcc tcgaatttta 240  
 tgctaagtct tggcctacaa aagaaggcgt gcgagatatg cgatcctgcg tgaggggtca 300  
 gtggatcccg tttgatgcgg atgctcttan ccagttcctg ggataccctt t 351

<210> 34094  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 34094  
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 ctttgccctt ccatgcagca acctgcagca attgagcagc ctgaagctta tgctgcaaatt 180  
 atttacaata gacctcctca acctcagcag caaaatcaac cacagcagaa caattatgac 240  
 ctctccagca acagatacaa ccttgatgg aggaatcacc ctaatctcaa atgggtccagc 300  
 cctcagcaac aacaacagca gctgctcct ttcttcaaaa tgctgctggc ccaacagacc 360  
 atacacttct tcaccaatcc aac 383

<210> 34095  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 34095  
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 aaagtaatat cttccactag agctttttct ttcaactcta tcaccaacat agtcaacatc 180  
 ataatagctt gcaagtctga aactctctct atttttgaac ataacaccaa gattagaagt 240  
 tccaattaaa tatctacaaa tatgtttaat ttcaacttagg tgaacttccc tttggtattt 300  
 ttgaaatctt gcacatagat aaacattgaa cataatatca caaatggatg cagttagata 360  
 gaccactgag ttgcatccac tttttttgat cc 392

<210> 34096  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34096

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 atttcatata taatatattg atttttgctg tgcaaaaaaa aaagaaaact gagtttttaa 240  
 ctanagtaag aaactctttg aacagagtca gagtttcaga tttacttttc aacacataaa 300  
 gccaaagtaaa acgagtgtgg gcatcaacaa aggttacata atatctgtaa cctgtgttgg 360  
 acaagagaga agacccca gaatctgtata aa 392

<210> 34097  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34097

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 ggcattgcta aacaagcttt gcattcaata gctcagtgtg ttgctgttct atgccttgct 300  
 gctggtgatc agaagtgttc atctactgtg aaaatgctta ctgacattct caaggatgac 360  
 agcagatcta actcagtaag tctttttctc cagtactctt gacgtgtagt gatattaatt 420  
 ga 422

<210> 34098  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 34098

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cagagataaa cacaataccg aacacgagcc ggagaaagga actgggaagc ttaccggtag 180  
aaaaattaaa agtccaaaca aatgcagcgg accccttttt atgtcaaaac tctattattt 240  
cttccttgac aattttgtgc tanctgtaac tgggggagggc ggggaaggga gccaacacct 300  
caactaaaga ctcttgagca ttcaacttga cgcgaaatata atcttcttaa aacaagtaca 360  
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<210> 34099  
<211> 311  
<212> DNA  
<213> Glycine max

<400> 34099  
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ctcaagatca agcatcaaga atccaatcca agattcaaga ttcaagagaa gaaatcaaga 180  
agctacaagt caagacttca tataggataa gtattaaaag aatctttcaa aaaccaaata 240  
gcctagctta gtcttacaaa agaattttct caaatcttct aagctactag agtgattact 300  
ctctggtaat c 311

<210> 34100  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 34100  
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ttctatttcc tatagtatgt ttatatttga ttgctttctc tgcactaata ttatgtgttg 180  
acaatgccct tatgcagcaa caacctaata caatgactat tattgtccct cggcatcgac 240  
agcaatgact atagattgtc aaagtaacgt tctattttctc atattctttc aaatcatgat 300

tttggttccc tacagatatc ttccatacga ggccatcctt acttcagact aacggaataa 360  
aaagaaacca aaacagcaag ttaaccata t 391

<210> 34101  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34101

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tacaacactg aaatagcaga aaacaaccgt caagggaata actttagaac aataatgctg 120  
aaaacaagct tcataggctc caataattta caccctgtaa ggttgccat gcatgaatag 180  
aataaaagta gtcatgaagc atgcttatac ggtcatttat ggtgaaatga tttatgatag 240  
catggaatct tgccagaaat aaagtagtca aatttaactt atgctgtaaa catgatttat 300  
gatagcatgg accaacttgc tntaagttgg ttaaatt 337

<210> 34102  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 34102

tcaaaatgta gttaagactg cagacaactt ctgttcatgt ttgaagcttg atagaaacac 60  
agatgttagc tatagtaata tgaggaaggc tgcttcttgg gaagatttga ctgacaacta 120  
tttattctgt tctaaagctg tagatcctca gtacaaggat ttaaggcatt ttcagtggca 180  
ttgggaaaag ggggagcctg tcattgtcag caatgtgctt gaatgtacat ctggtttaag 240  
ctgggaaccg cttgtcatgt ggcgtgcatt acgtcatgta actaatacca agcatggcca 300  
acatttggcg gagaaaacaa ttgattgctt agattggact gaggtttgct taatttccca 360  
atctttaact ctattgacca tggagagctc ttacacaaa tttcattctt caccttcatt 420  
ctc 423

<210> 34103  
<211> 475  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34103

tgaacctctc acaccgatgg aacgaatcga ctgattgata cattaanatac aggagagtga 60  
gcggttgacc ctgtgatacc tcgaacacat aggcgatacc actcggaccg cggatctcta 120  
aagtcaaccg cttttgcaag cttcaggaca agaacacata ggaaccgaaa gagcattcaa 180  
gagaataact tacaagagac ggggtattac aattatatag atggcacaag agtaactact 240  
tgggacaact taacgcactt agtaccaacg acaatctgaa gaaccatgac aaactatatc 300  
ctgctagata cccctcagct acgaaagcca tactagctgg aatacgact taagacacga 360  
cccacaaggt ttatccatat gcccatgtta ccacacagaa atcgaagcaa gctcaaatac 420  
attatccctt cccgaataca cgacatcaac taaatgtctg ctctccctga taacc 475

<210> 34104

<211> 290

<212> DNA

<213> Glycine max

<400> 34104

gaactcagaa tactacgctt gatgataaag tgagatttac gtgtatgtgg gttactactc 60  
aagatccaac ggggtgcacac tctataatcc acatcgtaga aagaccgtcc taagtcgca 120  
cctggaactc gacgaagacg attgttgga tcggaatgtt caagacgact cgtatgattt 180  
cctcccttac tttgaacaac atgatgacat tgaacaacct atcctatagg aacatattac 240  
actaccttcc tcaccatacc aacgctctat gaaacaattc cacgtgagag 290

<210> 34105

<211> 336

<212> DNA

<213> Glycine max

<400> 34105

tttcatgcaa gcttatcaaa actgaatata atggctocta ggctcaagaa tcttatactc 60  
ttagactgtg agtcttgcta actaggaaaa catgttacgt catcatttcc tcaaactgta 120  
caaagatgta actttgcttt gtctaccatt cagcttgata tttggggacc aagtatgggt 180  
acatcttttg gttttcgga ttttgtaacc ttcattgatg aattttccag atgtacttgc 240

ggttatttaa tgaaagacag atctgaacct ttacatatat tcatgtcgct ctctaagag 300  
attgagaatc aatctggcag atcaattaag attttc 336

<210> 34106  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 34106

tgggggtaaa acttgatttg tatagctaga agtgggtatg acacaagact tgtaacttgt 60  
gagaagtaag tggaacttgg tagtttgcca agaattggat gtaatcttag tggtagagac 120  
gaaatttgta gtttgtgaac cctaattctcc caatttcaat taaattttgt ttatttagcc 180  
agttgaattg ttgtgttgca ttacttctta tttgggattg atcactccaa aaacctaatt 240  
cattaatgta tgtttggatt aaagtttgca aaagtgtctt aagtcttact tctctataac 300  
tgagttctta cgccaaattt tactatcaca catatctttt tgggcaacca aacatgaccc 360  
taaactgatt ttactctaca cacactctgg gaacactccc attggaaatc caaacata 418

<210> 34107  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 34107

ctgcagcttt gatgggtttt aaaaatccat gtttgtcatc atcaaaaaag gggagaatgt 60  
gaatgtatgt ttacatgatc ttgatgatgt caaagaagaa tctatcaaga ctgcttcaaa 120  
tgataagcat ttgcttcaag aataattcaa gattgcttca acaaacaag ccttgttcaa 180  
gattcactaa agaccaagcc ttgccttaaa acaatgtgct ttcaagacat gcaaagctct 240  
ggtaatcgat taccaggaag tgtactcgat taccagatga cagggttgag aaatagctgc 300  
tgaacaaggc tctgaacttg aattctcgac atgtaatcga atatcgatg tctgtaatcg 360  
attaccaaca acgaaactt 379

<210> 34108  
<211> 441  
<212> DNA  
<213> Glycine max



<400> 34108  
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 ccaatttttt ctctgaaata ctgtaagtat gaatctcaat atgtctggct aatccttttg 120  
 aaggcaccct caagggacct tagttatctc tatttggaat atgcgaatat gatttagaac 180  
 ccagttgttg taaatagtgt ttttttttct acttattctt ttcttttgct tgtttttcga 240  
 aaacctggga tttttaagcc tgcaaagggt tgcccttgat agctgttttt tatgaaagtc 300  
 ctttttggtt aggcgggtgc ttggaggaaa ataagatcaa gtaagacca aagaagtgtg 360  
 ggcagttctc gatcttcagt actcagctta atatccacaa aatcgataag gacctgtgta 420  
 aaaaaaaaaa aaagagtctg g 441

<210> 34109  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 34109  
 agctttactt ccactatttt aattcttatt gcaggattct ttccctacca tgctattaat 60  
 tgattgcctt tatctattct ttttaattaa ttcttacctc tgaattgaac cttacttttt 120  
 tgcttgctcg gaacatttta taccaatctg ccttgcgta ctgctttacg actttaccat 180  
 taagacgggt gatattaaat taaaaaaagg acatatatat tatcaacatc ataattctta 240  
 tatgtactga acaaaatctc aacaatttta gacattatga ccgacctgca agagagggac 300  
 taaagagtat gtcgatgctg atgtgaaaat attttgattc ttgcaagcag ctgacacg 358

<210> 34110  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 34110  
 tactatagct atattgagtt attataactc caaatatatc atgtacattg tatagagtcc 60  
 ataggagtgt aaagcaaaca aaggcggcta tatcccaagt taagaaatga tatacgaact 120  
 ataggtgtta atagataatt gctataatag gaaaatgata taggatttgg atggattgaa 180  
 tagtgtacca cttagtccag tgtgtttaag gatgattgtg attgaattat ttttggaac 240



<210> 34113  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34113

agcttgccgc tggatctgac ccatgaactg ccctaattct tttagactgg tgatccctat 60  
 gctcttgacc ttgacttgat agaattctctt ttttaagcgaa ggcatttgac ttgatcccat 120  
 gttttactaa agtgaacaaa aatcgggtgcg aatcaaaacc ccaacatctt tcatgggtgg 180  
 aatggatgaa cgcattgagga aatgcatatg acacgaatgc aatttatgaa cacggtagcc 240  
 cgggaaattg tctctttctt agatacaaca tcttggggta gcaaagtgcc cgacgtatgt 300  
 attaaagaag gtgacacgga ccattctttg gttctccaat gtgcgtgatg canatgcgaa 360  
 aggcgcaacg cgggaatgta cagtatgaca atattcaciaa aat 403

<210> 34114  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34114

ttagaaaccc taatttgagg aagaagaagc aagtgattaa gaaaatattt gataactttt 60  
 taaattttgc attaaagtcc agtctacatg tcacattttg ggacaatttg tcacgttgga 120  
 tagtctatgt gacactaaaa ttgccaataa tgcacctcac taacgcgtta cttttaaatt 180  
 taacgacaag gactattttg caaaacttat gcaaagatag ggactatttt ttacatttca 240  
 aaaagatagg gactaatttg taaaaagggt caaaagtcag ggaccaaaat gcttattttac 300  
 tcgtacaata acacttggtc aatgtttgac taaaaaaatt gtcattgagac aacacanaan 360  
 anaaacgaag cataggacaa agtctaaaat tcttggttact caccaaacca catgacaact 420  
 ntntccatag catatgttat g 441

<210> 34115  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 34115

agctttcttc ttgcgatgaa acaaaaaacc acagaaaggt agtaaagat gcacatacaa 60  
catcaaaacc gaacaaaaaa aggttgaacc tttgtacta atcataaaaa atcataaaaa 120  
atgaacaaag attgaagctt tattgttgcg atgaaacaaa aaaccacaga aaggtagtaa 180  
atgatacaca tgcaacatca aaaccgaaca aaaaaaggtc aaaccttttg tactaatcat 240  
aaaaaatgaa caaaggttga agctttcttg ttgcgatgaa tcaaaaaacc aaaaaaggt 300  
agtaaataat gcanatgcaa catcaaaacc caacatagcc cgagcaaaat ggtacataac 360  
aacaaccca 369

<210> 34116  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 34116  
ctgtactcaa tgaagtttat tcttactgtg acgagtttca tactttatat actgtttgtc 60  
tcttcccttg tagtttccat agcagcagac acatcatcca tttcacaatc ccaatccctc 120  
agttctggaa gaaccatagt ttctccaaat ggagtctttg aacttggatt cttcaatctt 180  
ggaaatccaa acaaaagtta cctcgggatt tggttcaaga atattccgtc taaaacatt 240  
gtttgggttg caaacggttg caaccacaata aatgattcct ttgccctctt gagcctaaac 300  
agttctggcc atttggctct tacacacaac aacactgttg tttgggtccac aagttctcta 360  
agagaaacac agaatccagt ggcaaagctc ttggattctg cgaatcttgt gataagggat 420  
g 421

<210> 34117  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34117

agcttataag aataactcaat aaacaactta agagagaagt agaaatactt ggtctatatt 60  
agttcactca aatagagcta cgtccagctc tcctttacac aactataaag ggatccacta 120

atcaaaaactt ccattacaac caggtattct atcctatcac tcttggctat aaaagtattc 180  
tctatgtcac tcttgacaca cccttagact cccctgaat ctaagaacac tcaagtatgg 240  
tttaacactg agccactttt gattttctca aacaaaagtt tgaatgaata caatgattca 300  
acaacactca aagagtggat aaatagttaa actcanatgc aaataactnt gcttagcaaa 360  
tgatgaanag attaagtgtt gagtatatcg tccact 396

<210> 34118  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 34118

tcatccgtgg gtcaaaaatc atagcaattg aaagaatgac attatagtca cttcaatact 60  
tgctaaactt ttccatcatc aacactgaca tattttgcaa tactggatca tcacacttaa 120  
gtgtttctcg caacaaccat tcaattttcc atacttgcac gaagtattca ttgggcttgt 180  
ctatttgtct taagtttagg ctacgaaatt ggaatttgc tattattgaa tttggttgct 240  
aacttgctac aaaataaaaa ctgaactacc taacaattat aaataattat aaatttataa 300  
taataataaa ataaaataat atattattta aatattgtgg gttgacgggc tggcccatca 360  
acccacgggt tgagcccacc taaccacgg gctaagtggg cc 402

<210> 34119  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34119

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atgatgtaga agaaaatgaa tgtgagcctt tgccncatc gaaagacttg taaaaaaat 120  
gctttaacaa tacttttaat caatatttga atcctttttc cttatttagta tatatgcggg 180  
gggtagaggg tgtcacatat aagactgtaa acattgaagt cctttgaaac atanagcata 240  
agatatcgca gtcttttgaa acataaaaca aaggacattg agtcctatga taaaacacag 300  
gacgttgagt cctatgaatc atgcactcgc attttgaaa tttgtctata atgagaa 357

<210> 34120  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 34120

tatgcgcata tttccttaca taogtttctct tgcacattac atttaaccga aaaagtgcac 60  
 ccatatacaa tcaaggcagc ttcattacct agattattta cacgtactgc caaggtgtat 120  
 ttgttactta catcacacac atctccttgg ctgaatttgc atacatgcat actcaaagca 180  
 ttttggggta ccaaaaattg cacatgtgca catcttggtta tttctaatac ctatatatac 240  
 acaaacttca tgatgaatct tgactatctt cacaaaaagg tgctacactt catccctttt 300  
 ttcaagtttt tgctacctaa agccgcatgc aaattcaagc atatttttctt ttgcggacta 360  
 aaattgtatt caaattaaaa ggtatatttt ttgtaatatg ttttcttcac ataacatgca 420  
 acatatttat atata 435

<210> 34121  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34121

agctttattc aagacaaaga aattaaagat attcaagatg gatgatcaag acagtcttta 60  
 gagtcttaga aagggtatat taaataggaa gggaattcca attgaagtag caaaaggttt 120  
 ggccaagaaa tttaagttaa aaagtctttt acaagaaatt tactctctgg taatcgatta 180  
 ccagaggatg taatcgatta ccagtggcca aaactgattt acaacagcta ttaaaatttg 240  
 aattcaaaat ttgccctgtg taatcgatta cacatatatg gtaatcgatt accagcagtt 300  
 tctgaacgtt ttaattcaaa ttctatagat tgtaatcgat tacacatata ctgtaatcga 360  
 ttaccagact agattttcan anaatattct caa 393

<210> 34122  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations .  
 <400> 34122

tggtggagtt cactgagaat catggaatgt tcgggttggg ttacgagcct acatatgccg 60  
 acaagaagat ggttacctta gaaaggaagg agagaagcct ggcccatcta caagggcgag 120  
 gactacaagt ggaaagggtc cccatttgtc acatcaacga aagctttgtc agtgcaggat 180  
 ggatgcgtga ggattaggtt gcagtgatag atgaagaaac ccctcaagac cgaccaaatt 240  
 ggggtgcagcc atgtcctcca aactttgaat tggggaattg aaaaattgtc aaacgaccca 300  
 agatttgcac gacaaattca atgtaatcca atagttccaa ccctattgtt gggcctaggc 360  
 tntgggggtct gctcttttgt tagatccgat gttgagtcct gtaagagtaa caatatcgag 420  
 gactcggacg t 431

<210> 34123  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34123

agcttttatg ggatcaagga gtctatcatg tgttcaacaa gatggacgag gactccaagc 60  
 ataccttaat agttaaaggt ttagtagtcg ctaaacaaca aaagtttaga aaaaccaact 120  
 taaaggctat gaaggtggcc ttggaaaaaa ctttgaagga ggctctagaa gtggatgtgc 180  
 acgccatcaa caagccaaac aaaagagatt cgccaagtcc attcctattg aaggccttgg 240  
 tctggatagc tttggcatgg caagaaaaat taagaagatc aatgttgggt agaaaaagaa 300  
 gaagacaacc agancacaat cctaaaggga tgaagagaaa atgtgatttt gccaaaggaac 360  
 a 361

<210> 34124  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34124

tctatagaag gtccgttcct aatttctcta caattgcac acctctcaat gagctgggtga 60  
 agaagaatat ggcatttacc tggggtgaaa aacaagagca agcctttgct tttctcaaag 120  
 aaaagcttac taaggcacct attctagctc ttctgaatt ttctaaaact tttgagctag 180

aatgtgatgc ctctggtgtg ggagttggag ctgtattgtt acaaggtggg caccctattg 240  
 cttatttttag tgaaaaactt catagtgcc aacctcaacta cccacacctat gataaagagc 300  
 tctatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aaggaatntg 360  
 tcattcatag tgatcatcaa tcaacttaagt acattagagg gaaaatc 407

<210> 34125  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 34125

agcttcaggc tgctcaattg ctccaggttg ctgcatggaa gggcaaaggc ctgtatggtg 60  
 gtcagcagag gagcacaaac cacaaccct tgcaacaggc acagatttct gattcaaggc 120  
 cagctggggtt accaagttaa ccaatgcac cagtttgct tcaagcttct tagcttcaca 180  
 tgatgcagat ggggtttag ctacctcatg cactcctcta atgactatgg catcatttct 240  
 ggcgctaaac tgctgggagt tggaggccat cttttcaatt aaatttttgg cttcagcagg 300  
 agtcatgtct tcaagggtc caccactggc agcatctatc atacttctct ccatattact 360  
 gagtccttca taaaaatatt gg 382

<210> 34126  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 34126

ttgctaattt agttgtctct ggcgaaatta tcgaagtggg tctgagaaga ggcaaatttg 60  
 attatcctgc tttgatgaat ggggaagcctg cggaaaatgg agagagtaag aatgagggag 120  
 gaacccatgt tgtgactacc atgcctacat ggaaaaattc ctcaccagct caacaatatc 180  
 aatactcagc caatatcagc ccttctcatt acctaccacc ctatcagcca aggacacca 240  
 atcattcaca aaggccaccc ctaaatacagc cacatagtct gcctgctgca catcaaatac 300  
 caaacaccac ccttaacaca aaccataaca ccaaccaggg aaggaatttt ccagcacaga 360  
 agcctgtaga attcacctca atcctgggtg cgtatgctaa cttactccca tatctactca 420  
 at 422



<210> 34127  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 34127

agcttctggg agcacaaatg gattggggaa aagccactaa aacaactttt tcccatatcg 60  
 catctgataa atgatggaca ggaggacatt attgtaaaca aggcaacttc acatgggatt 120  
 gcgagtgcaa gcgacggtgc aacctaattg tctcgaaaca gcagcttcta caaagctaac 180  
 tctcaagatg acggttgccc tcattatgac gagcggattt gcgtgaccct attaattgat 240  
 ctagaata 248

<210> 34128  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<400> 34128

taaggtttaa tcaactgtatg aatgagtgat aataccttca gctgctaaga ggtcaatcag 60  
 aacgactgag cagcatgtgc gcagtactca ctgagtcaag aacgggggag gagaggaaca 120  
 actaagccag tctccttttt ggggctgtac tcaactacgat cgactttgac cggaatagc 180  
 aggtgacact caaacccac tcgttactcg tgcacgctc actttgcagg tgagattacc 240  
 aaaatctccc tgtgcttgaa g 261

<210> 34129  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34129

aagaaaacaa aagaaaaaaa agnccccggg caaagnncag aagaaaacaa aggaanaag 60  
 aaaatccctg ancaaagaac ggaagaaaan gaaagaanna tgnagaangg gcttcggacc 120  
 agacaaatat ccaaacaata caaatagcc ataaccacaaat aaggaaataa aggaaccac 180  
 gacttgaagt agtcctctcc ctttggttac caaccaaata cctatgcgct aatgactttc 240

286

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<223>      unsure at all n locations
<400>      34130
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<223>      unsure at all n locations
<400>      34131
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<210> 34132

<211> 238  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34132

gaaatcatta actctattag tcaaattattg tcacaaattg atcccttttg cgtgcattta 60  
 gtcattatat tatatactta aaaattgtta agtaaaaaca aattattatt ctaaaaaata 120  
 tacttttacg aaaagaaata tttgttaaat atttagacct gattaatcca acccaaccca 180  
 tttatgattg ggttgcgttg ggtatgaaaa aaattatata aaccccacta nggatggc 238

<210> 34133  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 34133

atgtttcctt aataaagtct acaagtttca acaatacatt tatggattga aagaagtgtc 60  
 tagaatttgg agcattcatt ttaacaagat aatttgaatg gttaatcttg ttagctatga 120  
 agaagaactt tgtgagtaaa aaaaggttac tgggagcatt acatttatat gtagatgaca 180  
 tataaaataa tacacaatat tatgaaaaaa gaattgacta ctaatatatt atcaatgaaa 240  
 tatttaagag aaacaatat taaaaat 267

<210> 34134  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 34134

agcttttgagt aaattgaaat gacaagaact ttctacacgg atgtccggtt gagtcccgta 60  
 atatatcgag atgtcaaaaa tttagatccg aagctctgag aaaattgaat tgacaataac 120  
 tttatacacg gatgtccggt tgagtctgt aatatatcga gacgctgtaa attgaaagcg 180  
 gaagctcgta ggaaattcaa acgacaataa ctttttactc cgatgttcga ttgaatcccg 240  
 taatatatcc agacgctcaa aattgagact acaagctctg agcaaattgc aatgacaata 300  
 actctatata ccgatgcccg gttgagtccc gtaatatatc gagaccctc 349

<210> 34135  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 34135

agcttttcgat aaattcaaact ggtcataact ttctactcgc atgtccgatt caggcgcata 60  
 acttatcgag acgctcgaaa ttgaacaacg gaagctctcg agaaattcaa atggccataa 120  
 cttttcactc gcatgtccga ttcaggcgca taacttatcg agacgctcga aatttaacaa 180  
 cagaagctct cgagaaattc aaatgggtcat aacttttcac tcgcatatct aattcagcgc 240  
 atagcatatc gagacgctag aaatttaaca acggaagctc tcgagaaatt caaatgggtca 300  
 taacttttca ctgcgatgtg cgattcaggc gcatagcgta tcgagacgct agaaatctaa 360  
 taacggaagc tctcgagaaa ttcaaattgt cataactttt cactc 405

<210> 34136  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34136

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 aaggtctgag agaccataca agtttcctaa cgattttctaa ttatgtgggc cattaagtct 120  
 atcatatgct gacaatagcc gagaagccca tgaatctctt cgggggcgga gtaggtgtct 180  
 gccatcgctt tggccttggc taacaatcgg ggaagttctt gactcccggt caaggtaaga 240  
 gcaaaccgat ccattccacat ggttgccctt tgggtgtaaag agtcgatcac ccttcctcta 300  
 gcctcttttt ccgcgtatac ttgggcatat tcgtccgcaa tcctatgctc gtgggcccgcg 360  
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<210> 34137  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 34137

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 ttgtcttctt attagcattg tgttgcgagt atgtttaact tgagggtaaa tctaaacacg 180  
 ctcatgttaa aactttgaga aaacaaataa atttagttaa gtcaatttga gtatttgttt 240  
 ttttgtaaaa attattttta atgtgctaaa ataatgtttg ttataccaat ttttgttttt 300  
 taaaattttt attttgaaca aaataactaa cagggttaat ataaattcag ctataaataa 360  
 tttttgtgtc atgcagaaga gatgttttga t 391

<210> 34138  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 34138  
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 ggtccaatag cctaaaagaa tggtagaaca atgatagtat cgaactcaag aaatctgtga 120  
 aaatccaaat tgaataaaaa gacaggcaaa acgagtattc atgtgtttgc catgaatcaa 180  
 acataatgag gttccaacaa tttttaatca aattttaatt ttaattttta ttatccttat 240  
 gctagaaaagt ttaacttttt ttattttatt catatacttg cacaaatttt gggaaaacaa 300  
 gtgtaagaaa ctaagaactt aagtgaacaa gtatcatgaa cacttctaatt tgcttttacc 360  
 agagatctca tagcatttac aaaatcaggt ttttcttcta aaggatcaac agacagaaca 420  
 agtcttccca gtgtg 435

<210> 34139  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 34139  
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 gacaagacaa gccacacaat agtaagtcaa gtcactctca ctaggtaata tcataggagg 120  
 accagtcagg gtcacagtgt tttgcgagaa ttttccaacc atatgagatc aacataggct 180  
 taaaggagca ctcaaaccgt gtgaccccca aggctacac tccgaacagt ccgtcagggc 240



<213> Glycine max  
 <223> unsure at all n locations  
 <400> 34142

tatacaatac tcattgctga actcattaga caaaatctat atactagtng gggattcgtt 60  
 gggttttgtt ctgctggtat gaccctagct tgtctgataa aaaatgaacc attagtttac 120  
 acattatgag aatacattaa tataccatac atcatattat taaagagtgt cctacaatac 180  
 cttaatagtg acaagttcaa gcctttcacc cacaatgggt tagtaccctc cacaacatct 240  
 ttcaaaaaaa aaaattcttc cacaatctcc aatattgttt tgactagcag atgataatat 300  
 caatgatttc agacttaatt angagtttta ttanggtaag ccaaattaca tttctcaacc 360  
 atgatttgct ctttagggat tcgattgata tggctactac gtgtttttac aattaatgtt 420  
 caatcttact aggatgcaca acacat 446

<210> 34143  
 <211> 362  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34143

tttctttatt ttgggaagaa aacagggatg ggggtaatgc atgaagatat tgattttact 60  
 atcaaacatt tagtccttcg agatacgtcc tgagagcttg aataaattac agcccaaaaa 120  
 tcaacccaag tgcgatgcat tttgctcttt agttaatcat ccaatgtgtc aatatgatcc 180  
 acaattagtg ggtaaagctt atacacaact cataccaaca taaggaatgt tatgcacatt 240  
 gacgaccaga ggaataaaaa gttgaagtca gagaacacaa ttctttttng tctctatat 300  
 cctttcacaa cactaccgga aatggacatg acaacattag acatttctca aaatcatatt 360  
 ga 362

<210> 34144  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34144

tgctggtggc ttttatttga cacgggtcgt agaattactt ggtttgttgc actttcagtg 60

tatcgagtct aataattacc agttgaacaa atcttatgtg tacacacttt taatataaaa 120  
aaciaataac aatcgtaaa tatgattgta attgtgacat ttcaaaaaca caatagtga 180  
tggatacttc acaccaacac tatggtgacc aacaatatgg tgacgtaaaa aaaatagtaa 240  
atattgagaa atatgtgtag tgtttatgaa tatatgtgag aaggaactgt tactatcaag 300  
tntcttaaaa gttatcccca tgttctaaaa cttgcttgtt tegtgaagtt aattacctcc 360  
atatagtga catgacatgt taatttttca catctgcaaa tatcttagat gctt 414

<210> 34145  
<211> 262  
<212> DNA  
<213> Glycine max

<400> 34145

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cggtcctctgg gaatccatta catcctccgg ttatcgatca ccacacagta cacctcctga 180  
acaagacttt ataacctaaa tttcttcacc aaacctttcg ctacttcaat aggaacctcc 240  
ttcctatctg aatatactct tc 262

<210> 34146  
<211> 293  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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attatcaaca cactattaaa caaaaataat ctttaaaaca taatgtgaca gccgttctca 180  
ctttatttta agntaatctt caacataaca aatacacaat tgtagaactc aactaccgat 240  
tcgtacccaa ctccacctta tactatatag gattatacaa atccttaata aaa 293

<210> 34147  
<211> 298  
<212> DNA



<213> Glycine max

<400> 34147

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ttgagcctac tccaacaaga tggatctgag gacaaagctt gaattgattc aatctaactg 180  
cggatcgagg cttactaact tacgccacaa cataaaacac aaaaacatga ttgatcgggtg 240  
tgctttccgg tcaaccggat ttcccttgaa tactttttta taaagaacaa agcggaca 298

<210> 34148

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34148

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acttggcgag cgcattgtcg gacataaatt gcaagaggat ggggacaatg tggcatgccc 180  
cattgcttna gaatacagca tacgcctaag gcctttctcat tcaaactctc aattcaagaa 240  
aacaagcata aaaacaaacc aaaactgccc cacaatatata agcacattct ctcaatttgg 300  
agcaccaaaa gatgaagaaa atataccaat gggaagctaa aaacatcaag gattgaatac 360  
ttacttgtgg gagtgaacaa taacacc 387

<210> 34149

<211> 381

<212> DNA

<213> Glycine max

<400> 34149

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aatcttataa gaattatata tgtacgaaaa ttttcagcct ttttttcttt taaattttat 180  
aatcacagcg atatatcaat aaatcttact gatctatgta ttgtaattga gttacgtaat 240  
gaaaattttc tcttcctttc ttatgtaacc agtaaattgt gctctgggtca catgtcgtca 300



caacaggccc cccaacacca acacggacaa agaacgagac ggatcgcccc gaaccacc 539

<210> 34152  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34152

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gtactagctg tccagtccca tgttggggaa gaagatgact acgacatgca gaccactct 180  
caccttatat cggggcagag ttatcacagt attgggccag attgcaactt tggcccaaac 240  
atcatgcagg aggggtgcaa taagcaggag gcttattctg tagctctttc ggacgagcat 300  
caggatcact ctcaaatagc tgatgacaca aacaaatctt taggccaac ttcgaaactc 360  
aaggggtgta ataaggagga attattagct gtagccana ccanaaaagg aactccagac 420  
ttgtactcca aa 432

<210> 34153  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 34153

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ctttctacag catatcttta gagaagtaca atctgtcaat gttgtttagt gctcagagtt 180  
gactttcaac gtacaaatca aaagaaacgt taacaacata agacaaaagg aattaataat 240  
gtcaaggcaa gacaatttaa atcttccctt ttgcgcgtta tgactgaact tatggatgtt 300  
actttctgat gatcattctt agcactcgag gatcaagtga ctatttcatt gcttttgtac 360  
tgcgagcctg aaaaaagatg atcg 384

<210> 34154  
<211> 381  
<212> DNA



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 tcagaaggct tccacactga aatgtcagtc ttaatgaaag atgcaaggct aatgctacta 360  
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 ccacagtaaa atcctgcaca aaagaaaaga gca 453

<210> 34157  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 cagagattca acattcaatt tcgagcgtct cgatatgtta cgggactcaa tcagacatct 240  
 gagaaaaacg ttattgtcgt ttgaattagc tcagacgttc aacattcaat ttcgagcgtc 300  
 tcgatatatt acgggactca atcacacatc cgagaaacaa gttatggtcg tttgcattgg 360  
 ctcagagctt caacattnaa ttttgagcgt ctogatat 398

<210> 34158  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34158

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 ttctcagatg tctgattgag tcccgtaaac tatcgagacg ctcgaaattg aatgttgaat 180  
 ctctgagaaa attcaaacga cattaaattt ttactcgaat gtctgattga gccccgtaac 240  
 atatcgagac actcgaaatt gaatgttgaa cctctgagca aattcaaacg acaataactt 300  
 ttttctcgga tgtctgattg agtcccgtaa catatcgaga cgctcgaaat tgaacgttga 360

agctctgagc caatacaaac gaccataact ntttactcgg atgtctgatt gaggctcgta 420  
atatacttag acgctcgaaa ttga 444

<210> 34159  
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<212> DNA  
<213> Glycine max

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ttttgggcta tttatttcat aatattataa tatttacttt aacaacacta ttttaattagt 180  
ccttaattaa atatgttttt gcttacaata caagaataga attcacataa aacagctata 240  
caatatgttc attattttat atttaccaac tatttcaata attctacaaa acgctcttaa 300  
tttaataagc aagcttataa acttttagct cttagctggg agcttataaa ctttaaagca 360  
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<210> 34160  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 34160  
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ggaagttttc tcaaagaagc ttctcaagga agtttttctca agaaagcttc tcaaggaagc 120  
tacctagtct ataaatagaa gcatgtgtaa cacttggtgt aactttgatg aatgaaagtc 180  
ttatgagaca cacttcaaag ttccacttct ctccctcttt tattccttta atttaatat 240  
accccttctt ttctttcttt tcttccatta aagcatcttc ttcaagcttc ttatccaagg 300  
cacattcttg gcggtgaagc tccttcttcc atggcttatt ccatagtgga tgggtgtagaa 360  
gcaagcttca ttgcttcata atgatgaatc aagattgatt caaggtgttt tgatgataac 420  
aaagatgatg acaaaaat 438

<210> 34161  
<211> 342

<212> DNA  
<213> Glycine max

<400> 34161

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agcatatgga ccagtgtctt caactaccca cctctgaaag tcctctgtgt gcaaattatc 120  
tttttctactg atgatgggag gtcaaggcct caccagacag aaagcaagtg tcaattcctt 180  
cacagtacgt aatcgaactt gacttcatta atgacgaaat tacattcttt ttatcatggg 240  
gaacattaca tagcacatac aaaagataaa aagctcacta aaaataaatc aagctcatgt 300  
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<210> 34162  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 34162

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aacaagacct 430

<210> 34163  
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<212> DNA  
<213> Glycine max

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tccgtcatct tccaagctaa ccgcgagact ggcgtagagt cacacgtcac taatgcgcgc 180

taaccctcac atcggtgctc aacgagaggg ccccgacagg atttccatat aacacctgac 240  
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<210> 34164  
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<212> DNA  
<213> Glycine max

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<210> 34165  
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<213> Glycine max

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<210> 34166  
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 144. PRINT SIGNATURE \_\_\_\_\_  
 145. PRINT NAME \_\_\_\_\_  
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 147. PRINT CITY \_\_\_\_\_  
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 149. PRINT ZIP \_\_\_\_\_  
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 217. PRINT NAME \_\_\_\_\_  
 218. PRINT ADDRESS \_\_\_\_\_  
 219. PRINT CITY \_\_\_\_\_  
 220. PRINT STATE \_\_\_\_\_

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taatttgatt	tgatgggttaa	aagataaaaa	aaaatgggtg	attcaaactc	ctctcactag	180
tgaaaaatcaa	caaattaaca	actaatatta	acctttaaaa	aaaaaaccaa	tgttccgagt	240
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gatttaaata tgtacacatt tcaattccaa gggttgtgat tgttttttca aaaaaattca 180  
 caaaaccata taattgaaac aaaatcttga aattgggttt gggacagttt tccctttttt 240  
 cataggttca aacttttggg caattgaata ctatatctcc tatttttttt taaaaaaagt 300  
 ttcaacctat ccccttttacc ttctttctct tttttccttc ttcctttttt tcttttttgt 360  
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 <211> 338  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34169

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 aagaaccatc tggcccacaa agcacggact ttttgaaga agcacaacct cctaagatct 120  
 agttagcgaa gaaccgcgta cctgtgcacg ccaattacaa gactattgca agtacgccat 180  
 atacatcatc cactatttac tgatcatcga tcatncattg tgaagttaca tgatcacgac 240  
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 cgggctcgcc tcttttacta cgtcgcatgc tgccacaa 338

<210> 34170  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34170

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 tacgaaaata ttgctaatta tcagcataac tgaaattgtc ctatgcagat ctgatcatca 120  
 tgctgggtgct ttctcatcta ttgggttctg catctagcct attattttta ttatttctgt 180  
 ggcgattatc aaattatata tcttctaact tctaaacagt catgatggat tctacatatt 240  
 gctaaantta tgttgccatg aacgtcttca aaaggccaaa ataattctct ttcctctgat 300  
 gtaataaaaa tcccattctt tctctcctc aactetaage tctcattctc tgctctacaa 360  
 caaatttttc tatcttggtc aacatactgt atttcattct gacggatgcg gatttgcctg 420

gaac

424

<210> 34171  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 34171

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gcccttgaaa aattagaaaa ggtggagaag attaggcatt cggcgccttc aaacctcaca 120  
tgttcacgtc ctaatctctt tgtctgcttt tccatttgct tcatatttca atattacgtc 180  
agtctcatct tttggtctgc catgtgttcc gtaaaaaata aaaaagaata agacaaatga 240  
gaaaaaaaaa aattatttga aaaaagttga tgcgcggcat tatttttatt ttattttctg 300  
agtaattaaa ttgcatgata tctctctaca tcgtatcttg ggcgacccaa tgggag 356

<210> 34172  
<211> 442  
<212> DNA  
<213> Glycine max

<400> 34172

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tgcttggccc taaatttttc aactgcatgt gatcctaacc aatataattt attgtcaaat 120  
aaatcattaa acattataat ttaatgataa aatgatctca caaatttaat ggcaagacta 180  
atattattga gttttacata ttcatgaact aaatttgtct ttctcattat tttttaaaga 240  
tcaatttggt ttatgagatg aatttaacta ttcttccttt aaaagaatga gagaaatctt 300  
tttgatgaa accaaatacc actttatggt tcccacgtat tctcttccca tccatcatca 360  
ttcttatatc actctcacac gaacagaacc tgccttagct aaacgggttc aatatcacc 420  
acactctctc tctttgtcaa ca 442

<210> 34173  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 34173



aagcttagtc ttacaagacg gatctgcgga ttaagttttt gttttaagta tgttgctaca 300  
actaatgctg ttgggccaag tctaaaccaa caagacggat ctaacgacac agcttacg 358

<210> 34176  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 34176

tcaaggatat caaattcatc ctgactaaca ataaattatg ttttattggt agtaaattat 60  
aaattttggc taataaagaa aatgaaagat gaaaactgaa atacctgaat atcctcctat 120  
atcaaattcct tctgagtagc agggacttcc ttccaagtct cgtatgtcat gtcgacctat 180  
caccagcgat aatcccaaaa tatgtacttg attttcttct gtggggacct tcggccttcc 240  
cgatcgcagg atcgacgtgg accaccgatc tctctgcccc aggtggtcta gtggccaacg 300  
attgtagtcg tgtggctttg cgtgtctgct tcaaggtaga cagagattgt gatgctactg 360  
caagaggaga acgacgaaga ggaggaggcg acgtatgtgg agtagccatg gacct 415

<210> 34177  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 34177

agcttttagcc ttaggttgtt ccatgttgct gctcccccta tctttaacag taacaagcac 60  
atttccattc acaggttttag cgacatcaac atcatcactt gagccctcac tttcaatggt 120  
tccattatcc agtaatatca tgctcttttt atttggacat tgagaagcaa tatgaccaac 180  
tccttgatac ctgaaacatt tgatatcatg ggatctagaa gatgaattaa tttccatttt 240  
accttttaggt gcagcaaattg aatttttggg cttagcttca tcttttgact ttgtcataga 300  
ttttttgttt tgccaatttg accttcatga ataagtggaa tcaaatttgg aagtactctt 360  
agctctcaat tgctctcca cttgaataga tttatgc 397

<210> 34178  
<211> 443  
<212> DNA  
<213> Glycine max



tggtatcttt actttatttc agtttcaaac ttgtcattct tagggaatcc acaactctgg 180  
 ggaacaattg caggcatatc cttgtgctat caaaggaatg gtggtgtag tgtaactcg 240  
 ttgacaagtg tatcaaactg tcacaagtag taaagttctc ggaagtccga gtgtcgaatt 300  
 cacagggact ttgtttgtac ttagattaat gcaaacccca atttaaaagc aagaatttaa 360  
 agataaaatt agaagataaa agaaaagata agatatttaa agataaagtt agaagataaa 420  
 agaaaagata aatgatagaa gat 443

<210> 34181  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 34181

agctttatct tcaaccaag aaggaagtga taaggaggat tcaattgaaa tagacgaaga 60  
 tgatgatctc aatctatttg taaaaagatt caaccaatct cgaagagtca gaggaaatta 120  
 aagaagatca aattttaaat caaagaaaag ggcagaagat tcctctctta ttccaaaatg 180  
 ttatgaatgt aatcaacctg gacatttgag ggttgattgc ccaatcttca agaaaagaat 240  
 aaagaaatct gaaaagaaag tctttaatga aaacaagact aagaaggcct atattacatg 300  
 ggatgacaat gatatggact catctgaaga ttctgaacac gaagttgtaa acctgagtct 360  
 gatggccaag aattatgaca gcatg 386

<210> 34182  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34182

ntgatttcaa attagtatta tcttataatg atcatatatg tatccaatca aatttctttt 60  
 ttttttcaag tacatacata tatgcctaca tattaacgtg tatagttatc ttaatatatt 120  
 attataggat tagttattat atacatacat atatatatat atatatatat atatatatat 180  
 atatatatat atatatatat atatatatat atatacatat atatgttttt tattatacat 240  
 gtatattgca tatatatatt ataaatagat attttggaca tcatatgtca ttatagcatg 300  
 attttgaaaa tgcttattgt catggaattg gaaacattat gggttgatcg ttatatatgt 360

gtatatgtat gttgcgtcct atgaacattg ttatgaatgt tatgaagatg tataaatgaa 420  
catgacgtgg attaagtgc 439

<210> 34183  
<211> 99  
<212> DNA  
<213> Glycine max

<400> 34183  
agctttgttt tgaatatctt agtaccctgc acgcataggt tcttcccatc ttggtctcc 60  
atcgctgaaa gcataccgct acttcgaatt ttagccgca 99

<210> 34184  
<211> 376  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 34184

ggtcattaga accaatgaac tcaactgacaa tctccttgga cagaaccttc tctcgaatga 60  
aatgacaatc catctctata tgcttagtcc ttatcatgaaa gactggggttc gaggcaatat 120  
gaagagcatc tcgattatta caatacaact tcatttgcaa ctcttcacaa aacctcaatt 180  
cttgcacaaa ttgtctaatt cacatgagtt cacaagtaac tatacccatc gatcgatatt 240  
cagcttctgc actaaaccga cctacaaccg tctgtttctt gcttctccaa gaaataagat 300  
ctcctccaat gaagacacaa tagcctgatg caaacctnct atccatggga cagccagctc 360  
aatcagcatc acaata 376

<210> 34185  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 34185  
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ataatcatca cacagcagaa gactaacaaa accaccatc atatctccca aaacccata 120  
cccacgaaat ttaagacaga aagaagtcca cccaaacctg aattttcgaa gtcccactcg 180



tagccacgca cttcacgact ccgaaaatgc tctcctttcg cgatttggag cagaaatgat 240  
 ggccaaaggt tgaagctttg cttggagctt caatggagaa tggaggagaa ggaaaaagcc 300  
 acgtgaggaa gagggagaga gagagctgtt ctgaaattgg gctgagtga gagagagaca 360  
 gagttgcttt ttttttgggt cttaataaaa gggttttctc ttttctatta ttttattcaa 420  
 gctctgcaca tg 432

<210> 34186  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 34186

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 tgggccaaag atgcaagaga aggccctagg gttcttatga gccttatggt agatttcggg 120  
 cccatgggct aagtatgagc ccacttatct ttgtaaatat tagattaagg tttcattatt 180  
 tttgggcctt gtatttaggg ctccataatg taggtagggt accctagaaa tataggattt 240  
 ttcagccctt gtatttaagg gcacctagac tagtttttgt attacgggta gttttgtaat 300  
 ttcacatgta ctaagtggat atttgatgtg tgtgggttga aataaattta attgaattgg 360  
 tagaagccca atccaattaa attttagagg gggagggtgag catttgctta ctacacccca 420  
 ttgccacatc atatagttac act 443

<210> 34187  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 34187

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 accgccttct ggagaacttc ctggaaggcc caaatcggtc tagttgctat ttgcaccccc 120  
 ttttttacta aatacacccc ttgccttttt ttgctgattc tttttccgta acgctacgga 180  
 aacttacgaa ttacgtaacg atacttgttt cccttcctta atgttaacga accttacaga 240  
 ttacgtaatc atccctcttt ttgccttcca gaatgttaca gaactttacg gattgtgcac 300  
 taacactctc ttctaatttt cccgattcca cggaactcta cggatcgtgc tacaatgctc 360

tcttttgact tccgacatgt ctccgaactt c

391

<210> 34188  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 34188

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ggtttgctaa gtgcaccgct tcatctcact aagcgcaccg cttcagttca tccactaagc 180  
gagaaaggca cgcgctaagc cgaaattcac taatgtgcgc taagcagtc ataagaaata 240  
cttcccagag tccaagactg cggaagggaa agatgcaatc tctttatttc atcagtttcc 300  
tgatgaatct ttgagtgaag cattggagag gttcagaggc ttgttgagaa gaactctcac 360  
tcatggggtt tccaagccaa tccaattgaa tatgtttata gatgggctga gacgacaaac 420  
caagcaactg ttagatgc 438

<210> 34189  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34189

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taagttcacc ctcatgccaa aatacatgaa aataaaaaaa gtctctacta caaagactac 180  
tcaaaatgcc ctgaaataca aggctaaaac cctatactat tanaatgggc aaaatacaag 240  
gcccaaaaga aggaaaaacc tattctaata ttacaaaaga agagtggacc caaccttggc 300  
ccatgagctc agaaatctac cctgaggttc atgagaaccc cagggccttc tttagcagct 360  
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<210> 34190  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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 ccttaaggaa ttttgagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180  
 cattggataa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240  
 acattgtata ttggttaaata gttggacatg caataaagtt gagtgaataa gatcttaaat 300  
 ggcacaagaa tgatgaaact cttggttcta ctctntatgt tttaaatttta tctttacttc 360  
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 ttgcgattta gccactt 437

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 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 34191  
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 gttagatttt aaaatggggc aggattacat taaatctttc accatatttt atattctcta 180  
 atcttttgat ttttgttatt gttctctttt ctaaccatct gtcataacga ttgacagatc 240  
 ttgaaaactc ttttattttc tgatcttcgg tcaatactca atcctgcttc ctctcttgct 300  
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 gcagcatcca tggttctcct ggtcc 385

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 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 34192  
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taaactctct atctaagact tcactaatca ctaaccacta attatattata aaaaaaaaaag 180  
 ttacgttgca agtatatttg atttatgttg ctggcaatct ttactttata gtgacatata 240  
 aaattataaa tatcattaca aattctcatt tttaggtgac aatctttcct ttataggcaa 300  
 cattatacga aagaacatat atgagaaaag gctggtatag aaccaattaa cgaaaaaatg 360  
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<210> 34193  
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 <212> DNA  
 <213> Glycine max

<400> 34193

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 tccgatcgat gaatcatgaa taatgctctc gatgatccac gaatcccgac acgaatcttt 180  
 caacgatcat actcttaact ctttcacaca atttagtccc atacgaacgc ttcgcaggcc 240  
 ctttactcac cgagtctcta ctttctacta atccatcacc acctcattgt aatcgactac 300  
 caccagccaa gattgttcta caacgctttc ccttatttac accgctcctc tgattcaaac 360  
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 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 tcaagatcct aggttaattg tcaaccagca tcctttctga ctgccttact gtgctaattt 180  
 tctgatatat tagtatcttt ctttcgggcc tgtctttctt tgatcaagcc aaaagcatat 240  
 tttaatgaca gtgaaaattc acattatgga gttatcttgc tcttgaccta cactacatac 300  
 ctgattcttt acaaaaagta tacatgcctc aaaatattga taatctgtat at 352

<210> 34195  
 <211> 322  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 atactagcca aaaagtgggc aatatgaaac tctaacacct gtcanttcac ctttttggcc 240  
 tccttatgac tggaggggtc cgagaccta ttcttgtgat cacagctttg tcttttgcct 300  
 tctgcactgt ctctctcctt tg 322

<210> 34196  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34196  
  
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 aagagacatc gatacatggg atctgcttta tttttctctt agcagagtgt tagttacatg 180  
 catgctgtgg ttcatatgtt acacagagta tttcttgttc tacaacttgt gagggtcac 240  
 cattctatca cctggaggaa taagtactgg actccagatg aagaaggga gacagaggtac 300  
 acattatttc tgcaataatt catagatgaa cctgaagtca aatattacat cttgttctga 360  
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<210> 34197  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34197  
  
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ttacaaagga acgtaatttg gaaattccga ccacgccaat gtgaccgggg ttcagtgtag 180  
 gttacaaaaa taacatgtat ttcataaaag gataacgttt acaaagtctc tttctctaag 240  
 gtttttcaaa ggaagcataa gacatgcaat ggccggctgca aagttagaaa agatgcaaag 300  
 agaagatgga actaacaaga aacaagcata gaaccatggg tacctcgaaa gaaaacaaaa 360  
 gat 363

<210> 34198  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34198

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 ggacttctat ggaggttga tctttgagct tcaatgaagt cctttaatgg tgatttttca 180  
 ccatggagat gcagcgaaag acaaaggaga agaggtgaga ggaggcgtca tccactaagg 240  
 aataagccat ggaagaagga gcttcaccac caagatgagc cttggataag aagcttggag 300  
 aggatgcttc aatggaggaa aagaaagagg gggagaaaga gagaggggga gcacaaaatt 360  
 gaagaaaaac agggagagaa gtgaactttg attgtgtcta caagactcta ttcatanact 420  
 tac 423

<210> 34199  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34199

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 gattcggggc cataatatgt cgagtagctc gaaattgaac aacggaagct gtcagaaat 180  
 tcaaatggctc ataatttttc acacggaggt cacattcngg cacataatat gttgagatgc 240  
 tcggaattga accacgaaag ctctcgagaa attcaaatgg tcataacttt tcacacggac 300

gtccgattca cgcgtatcac atatacagac gctcgaaatt g

341

<210> 34200  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 34200

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cgtgggttcaa tgtcgagcat ctcgacatat tatgtgcccg aatctgactt tcgtgtgaaa 120

agttatgacc atttgaattt ctcgagagct tccgatgttt aatttcgagc atctcaatat 180

attgtaagcc tgaatcggag ctcaagtgtga aaagttatga ccatttgtat ttgtcgaatg 240

cttccttgggt tcaattccga gcatctcgac atattatgtc cccgaatcta accttcgtgt 300

gaaaagttat gaccattcga atttctcgag agcttccggt gttcagtttc gagcctctcg 360

atatattatg cgcncgaatc ggacatccgt gtgaaaagtt atgaccattt gaatntctcg 420

agagct 426

<210> 34201  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 34201

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ttccgagtag tttggatttg gtacgacccat gctctcctga tttccagctg ggaaattggc 120

gagtggagga acgccccggc atttacgcaa caagcataat gttaaacttt acgggtttttt 180

aaagctctat agttgggcct acgctttana gttttcattt tgttaaggct ttgtgtcctt 240

tgtgtttgaa ttataatac gaggatcttt ctccatctgt tccgtgtctc taccattctt 300

cattcatttg catgtttact tctttttcta aaacggcaga ttcgatgacg agtccccga 360

aggtactaat acctgggacc cgtctatcaa ctctcg 395

<210> 34202  
<211> 442  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34202

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gaattttcaa agtaaagtgc cggttgagac ttgccctttt gatgattaac caagggttacg 120  
acataaacia tccgttgaat tttattttga aagtgattaa atgagattac aatgcaaacy 180  
atcgggtcaaa attcatttta aaattgatta agtgagatta cggcttaaac gatcagtcaa 240  
aactcactta aaacgaagaa aaagaatact gaaagtagac gagacgaaca tgaacacata 300  
cgaagcaaga atcgacgcct aaggatgcat agaataatc caaagcttcg aaatcaaaaa 360  
ctaaccagtt gaagattgac gaacgatgaa gaacagcaaa gaatattcac ggaattggtc 420  
acggaagcgt tacagaagcg cc 442

<210> 34203

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34203

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gaatgatgta accaatacaa atgccactca agggagtttag gcatgtaaaa ctcaaacat 180  
cttcaaaaat tcttcaagct tttccttgaa aggttggtca ccatattgct catgttgctc 240  
atgttggtcc ccttatctct aactatctcc ccttttttgg ctctgatgat gccaaactta 300  
catatgacgt tgagtgcatt tggagggttt gagtcttgag attggagact tgatccttaa 360  
tcttatctg acnaattctt aacacttacg aaga 394

<210> 34204

<211> 420

<212> DNA

<213> Glycine max

<400> 34204

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 ttttgatcct ttctgaatg tagaaatata tgactttaca ttgatatacc tagatggagg 180  
 gaaaaatcta tcaagaactt ttcttccact atgctccagc ttgtcaaact ttgatttgga 240  
 tgagattgta gccatgcttt ggctttccct gttaaagaca atggcaataa tctaaggtag 300  
 acaacctcct cttcaccttt aggaatgccc attgtgccat attgttcata gaaagtagat 360  
 agatgagtat atggatcctc attaccagca cttgcaaact gatgtgcact gatcaaactt 420

<210> 34205  
 <211> 532  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34205

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 catcacntc gcggcgccgc cnnctgagcc ttgatacatt gganatcnaa ggggtaccag 120  
 ggatcctatc gagccaccta cacgcatgca gcctatcgtc attttttagt aagagggact 180  
 aagcgacctg aagtttattg tccacctgac actcagcccg caaactgata gacgactcac 240  
 tttgcgagcc tgatacgcg taattgtgtg cttgcogaac atatgtctgc tcagattccc 300  
 ctttactcga taatgccgct ggtgatgggc ttaaccggcg atgcgcacca atcccattgc 360  
 gccaccttac cgtgatgagt cttttgtcac aacttcaaaa accttctatc tactcactct 420  
 acacaacatt aacataattc catccgaaag gctctactgt tacagatcga cccacgaatt 480  
 tatctccacg tacacaaaa catcattgca gactattaca tttgaaacat ct 532

<210> 34206  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34206

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 ggtttgagaa gtgaaattga gaatggggta aatttgaggat aaaacctcac ctacacaaag 120  
 tctataacat caatttaaac ttgctcaact ggatttacac ctaaaatttc accgaatcaa 180



accaccataa cac

433

<210> 34209  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34209

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ccatcatatc tnccaaaatc ccatacccac gaaatttaag agagaaagaa gtccacccaa 120  
acctgaaatt tcgaagtccc actcgtagac acgcacttca cgactccgaa aatgctctcc 180  
tttcacgatt tggggcagaa atgatggcca aagggtgaag ctttgtttgg agcttcaatg 240  
gagaacgaag gagaagagaa tggcaacgtg agggagagag agagctgtct gaacagtgtg 300  
ggggctgagt gaagagagag aaaagctttt tggttttaaa tacaaaaggg gctttctctt 360  
ctctctatta ttttatttaa tcaacgccac atg 393

<210> 34210  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 34210

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gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttcctccatt taaaggaaag 180  
aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240  
aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300  
gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgataca 360  
tggacggaga tgaaaaagat catgaggaag cggtatgtgc cggctagtta ctcaagggac 420  
ttgaaattca agc 433

<210> 34211  
<211> 395  
<212> DNA  
<213> Glycine max

**Abstract**

<210>	34212
<211>	428
<212>	DNA
<213>	Glycine max

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ttcttttcttt	gtctaacata	catacttgct	caaacttatg	aaaagaaaca	caaattccat	120
cacaatcatg	catttaatcc	aaaagcccaa	gtgattaatt	aaagacttca	agatcaagca	180
tcaagaatcc	aatccaagat	tcaagattca	agagaagaaa	tcaagaagca	acaagtcaag	240
acttcataaa	ggataagtat	taaaagaatt	tttcaaaaac	caagtagcac	agtttgtttt	300
acaaaagaat	tttctcaa	tttctaagtt	accaaagtga	ttactctctg	gtaatcgatt	360
accagttatc	agtaatcgat	tactagtgac	cagtttggtt	ttcaaaatgt	tttcaaatga	420
tttgtaac						428

<210>	34213
<211>	248
<212>	DNA
<213>	Glycine max

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cgctatacac cagctagcgc ttcgacgcca ccaagggatg gtcgtttctt cgggagcgac 120  
gccgttacct cagggacgac gagtctactg attctcttga tgaaacaggg ccccggcgcg 180

ggacatcact ggttactccc atggccaagt tcgatcaaga cactactctt gagtttatgc 240  
ccatgctc 248

<210> 34214  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 34214  
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agagtgggaa tgcctctgac agcacctttg tcaatgattt tcttcatgcc tcttaagtgc 120  
agatgtccca atctttgatg ccatattctg acttcatctt ctttgaggga tagacatgtg 180  
gaggagtaac tgctttcttg acgtgtccat acgtagcagt tgtcctttga tctgctgccc 240  
ttcattagaa cttcactctt ctcatcagtc actaagcatt ctgactttgt gaagcttaca 300  
ttgaatcctt catcacacag ctgactgatg ctgatcaagt ttgcagtcag tcccttcacc 360  
agcagtactt tgtccagact atgaagtcca tcatggacta actttcccat tc 412

<210> 34215  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 34215  
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taccctctat ggttttctgg agttttaaca tgacttccaa gatggaagcc atttgatctt 180  
ttaaggccga tagatcggcc ttcactctgtt cttgcacgcc cttttcatta tccatttttt 240  
tggatcgagt gttatacggg tgccttggtg ttttcttaaat tatgatgaaa ttcttaaaga 300  
aataaacaac agtgagtatg ccaccaaacc atgagtatgc aaatggatga tcggagcact 360  
tggatccacc ccaagat 377

<210> 34216  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 34216

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 gatcctgcta caggggaaggc cgatgggtccc cacaagaaga aattaagaac atatttgggg 120  
 attgtggcgc gtgataaggt ggacatcacc tacgagaact ggaaggaggt ccctactgct 180  
 cagaaggacc taatttggga ggatattcag gtatttctct tttcttattt gattgtgtgt 240  
 aattaatagc caaaaaattt cattattgta ataaataaac tttgtttcat gttgttaggc 300  
 ggaatttgat atcccagagg cttctgacag taggacaaaa aggaagttac tacagaccat 360  
 gggggagaga tggaggcagt ttanatcaga cctcacgagg aaatgggccc ttgcagccga 420  
 tc 422

<210> 34217  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34217

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 cactcctgta agtatatttg ttactatata ttgtgctaac atcatatata tgcattgagaa 120  
 ataaaatgac ttaacaaaca aatgctatat ctctgaatac ctgaatttga tgccctcctg 180  
 atattgcttg tgactggagg atangtgatc tgagaccatc tatgtcgtta gaactagggtc 240  
 ttagccgtga ctctccacaa ctgttgctcag tttcatgaaa ttcagaaggt caccaaaaaat 300  
 aacaaaaaaa aaatgcttta gttccatcac tctcaagaga tgtaccgctg atcatataaa 360  
 atatatagta tggtagaaaa t 381

<210> 34218  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 34218

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 cgacattaag aagatagaaa gagtaaatga aatctaatacc tcaaaagtat gtatctcatt 120

ttcattttcg tcttcaggtt taatgaaatg agaaaaaagt tctgtgtaaa agcatacacg 180  
 caaaaataac gtggaacatt attattttaa aaaaacacta aatataaatt attaaaagta 240  
 aaaaagtata aattctaatt accaacaatct tttaaaactt aaatgtatca tttcttaatt 300  
 tagcatcttc aatatatata tgcaacaacg cctactaaaa tacagtttaa ttttatttaa 360  
 acgttacatc tcagtcaacc acaacttctt aacttacacc tgatatattt t 411

<210> 34219  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34219

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 gtcgtcagcg cgatggagaa agcttagatg cagaacacgg agaagaagag agcgcgagca 120  
 atgtaggctg tgtatgatat aagttaaaat gtaattccaa catcgatttt caatacaaaa 180  
 ccgatgttaa caaaatgatg ttaacgttaa catcggtttt cttctanaaa ctgatgttaa 240  
 ctgatcatat gttaacatcg atgttcaaaa aaccaatggt aacgaacata ggtaacatc 300  
 ggttttcttc aaaccgatg ttaactaaga gacattaaca tcgattnttc caaacgatt 360  
 taacaaatta atgttaacat caatcttaca agaatcg 397

<210> 34220  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34220

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 agatttatgg gtagacaggt tatgcactgc taaaactaat atgaatttat atgataccat 120  
 gagtggatgt taatttatca tgtactcttt tttacactct aaagtgtata gaagctaaat 180  
 cgaagacttt tacactatca aataataata taacacctta tttataactc ttactagtat 240  
 tatcataaca gtgaatgatg ttcagtagtg gaagaatgat tttcagtcac gcacgattgg 300  
 ttgataggat aaattatgct gtgagtttat gctaactgaa ttatataaaa tgcacgttct 360

caaaaaatag ccattgctgt cattntatta ttccttcgat tctgggttga tacgcttgtg 420  
ctaacagagg tataataa 438

<210> 34221  
<211> 321  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34221

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tctcgggtga aacagaggct aagttttgaa ttgcaaatg tagcagttgg gctaagctca 180  
acagttgggc taagcgcata tccaccgcta agcgtanttt cantgcgctt aacgcaaagg 240  
agaatctggc agagcatcag catcaaagct gcgcgctaag cgcgacatca atgcgctaac 300  
cgactacgt gccttcaccc a 321

<210> 34222  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 34222

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cgattacaca gtgcaaattt tgaattcaaa ttttaatagc tgttgtaa atcagtttttgg 120  
ccactggtaa tgcattacat cctctggtaa tgcattacca aagagtta atctctgaaaa 180  
agacttttta acttaaattt cttggccaaa ctttttgcta cttcaatagg aattcccttc 240  
ctattttaat atactcttct taagactcta gaaactttct tgatcatcca tcttgaatat 300  
ctttgtcttg aataaagctt tgagaaacat gtaacccttt ggcaagcttt ccctttggca 360  
tcatcaaac attcagcttg atcctttgtc tacatagatg actctcaaaa agcactctct 420  
aaaagataag atcg 434

<210> 34223  
<211> 373  
<212> DNA



<213> Glycine max  
 <223> unsure at all n locations  
 <400> 34223

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 ttaactaatt tatctgagat tttccaaaga gtttgatcat gcattattct ctacctaggt 180  
 ctaccaaaca taaacaaatg atcaccacaa tacatttgat taancatatg attgatcaat 240  
 ttccaattaa acaataataa aaaggtagat aattaattaa tataaaaaata ctaaggaatt 300  
 tcattaaaaa aataaaggat tacaattaga aagttacatc atatccctta gactaacgtg 360  
 actagctatt tat 373

<210> 34224  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34224

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 attcactatt caaacacgct tttggtacaa gtaaacact caaagtgctg aaatttaaatt 180  
 aactaaaatt taaaataact aaaatataaa aactgaaatt aaaatgactg aacataaatc 240  
 ataaaataac tgaaaataaa ctaaaatttt caagatgcac aaatttaaatt gtccctgctcc 300  
 tgtggttgct cctatgcatg ctcattaagg tccaacacct gagcagctgg tgaatcctga 360  
 gagataggct gctctaactc agatgctagt gcagatggta caacatcatc angtatgggt 420  
 gctagggatg gctctgggat ctg 443

<210> 34225  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <400> 34225

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cgaatcataa ataatacctc ctcccgata atttcaagaa atcaggatat actaagactc 180  
tagttgttca taattctcac ttgtctaaac tcttttgtat tgaaatttac acatttaata 240  
aattaatact cgcagctgac taatgtggta catcattctc tacacaatgt cttcacgata 300  
tttatactct ctctctgcac gatcccatcc tctttaaaca agcactcttt cggtacaaca 360  
tacttatgcc caatcact 378

<210> 34226  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34226

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gaccatgcaa cagtatgtat gttaagagg gatatgatat ttttacattg agaaattaaa 120  
aggatcatctg attttggttg gtatattaga ggatcaggat acaacaatat aaaatcgatt 180  
tgttgatttt atgtcaagta aatcctgtgt ggatagggaa agcctttctg aatacctact 240  
tgatcaccac atccatcttt anaaggaaaa ttagttgcgc tcaaattttc agagatgaca 300  
ttatgctctg tgattatctt tttcattgat tgaaagtcac taatgatata tttcatatcc 360  
tttatttatg tctattaaat gctgatgacg ttttgccgt 399

<210> 34227  
<211> 317  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34227

gatcctataa gtcgantgca cgctgcacgc ttttttttgt gtttgtaaca tcgttgcaag 60  
ctacaccttt ccatcggaac cactcacctt tctttctaag acgaaagcct tgaacacgga 120  
tctttgaagc tttctttcat attgacaagt gcttggtctt cttcttcatt gcagacaaca 180  
gagaaccacc ccttggaact ggaagaccac aattcacatg caattataac gataccacac 240  
ctcatacccg ccgagctctg catgctcggt cggtctgtat ccactcaaa caatttgatg 300

cctgtgatga tcatacg

317

<210> 34228

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34228

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ngcatttaaa gctctgtagt ccatgcaaaa gtgccatgaa ccatcctgct tgcgaactac 120

gagcacagac aagacgggtc ctttctagag cattgatcca acctgcgatt caatctcatg 180

tttctggtaa tgtggataac gatagggccg tacgctgact ggcgcacctt gtttcatgat 240

gtgaatgtcg aggtctgttt cgcgggccgt cgtcatctaa taacggggct caaataatgc 300

acgaaaatga tcaattcaag attggatagc tgcgtgggga gacataccac tctgcggtgc 360

gttttctacc act 373

<210> 34229

<211> 527

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34229

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anactnnntt nnntnnggac ggaccgcngc tcgacntcgt anaacancac anannnaaac 120

anannnggna cagccgcac acaaaaagca accagcacgc acgctttctt gtgacaacac 180

aagaccaaca accgccggct aaggacgccg caacaacca ccataccacc gacacaccaa 240

ccgaaacccc acccaacca accaacgaaa cgacgcgccc gacacggcgc aaacagacaa 300

gacgcggccc gcgaccaac caccgacgcc cacacaacac cacgtccgaa aacgaccaca 360

ccccccaccc accccctcc gccacagcg gaccacaaac acgaacacca gccaccagca 420

acacacgcac gcaccagccc cagcgaacta caaccaccac accaccgcaa ccccggaac 480

acaccggaca cccccacaca acaagacaca gccccccacc acccacc 527

<210> 34230

<211> 542  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34230  
  
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 tnanacaacc gcgagacaat tgatgcgtcg tagcccnca cntaaatann aaaacnnaag 120  
 canngaganc ggaaaaacgc cacacagcaa agaatttcat tatcccccg aacgcggacc 180  
 agggggggga gagaagcgca agacacgcca agcacagaag gccagaccaa acgcccggca 240  
 caaaagccga ccacaggcgc aaagaggagg ccaaacacca gctcgagcgc cnagcgcaca 300  
 gaaggacgac aaacacacga cagcgagcaa cggaccaacg cgccaaccac gcatataaca 360  
 cgaacagaag cagcgcgccg aaacagacga acaggcgccc atatacaacc agaacaacac 420  
 accacgcaca aaactcaacg ccgcgcacac cacacgaatg aagcgcaagg ggaggcccg 480  
 aagccacaaa gaggcgacga ggagggaaaa aaccgcgcaa agcacgcaaa aaaatgaaca 540  
 ac 542

<210> 34231  
 <211> 234  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34231  
  
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 catatatcga gacccttcaa attgaatgct gaagctctca gccaatcaa acgacaataa 120  
 ctcttactc gaatgtccga ctgagtcccg tcatataacg agacgctcga aactgaacgt 180  
 cgaagctctg acccaattca cagacaacc actttttact ccatccctg attg 234

<210> 34232  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34232  
  
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gtaaaacgtt attgtcggtt gaattcgctc agagggtcaa catttaattt cgagcgtctc 120  
gatatattac gggccttaat cagacatccg aatacaaaga tattgtcggt tgaattggct 180  
cagaacttca acattcaatt ttgagcgtct cgatatatga taggactcaa tcagacatcc 240  
gagtaaaaag ttattgtcgc ttgaattgtc ttagagcttc aacattcaat ttcgagcgtc 300  
tcgatatatt acgggcctca atcagacatc cgagtaaaaa gttattgtcg tttgaattgg 360  
ctcacagctt atacattcac cttcgagcgt ctcgatatat gacaggactc aatcagacat 420  
ccatgtaa 428

<210> 34233  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 34233  
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tacaaaagct ctcatgtac aattgagtgg tcaatgacct ttgataaaga aacacttgc 180  
agtaaaagtt gcgttttata aataaataaa taaaatcatt tttatccgtt tctgcacact 240  
ctgaaatcga ctaaaagaaa ttaatatacg tctgcatata taccttaca acttatggcc 300  
actcctctca gttcacaagc atatcacata c 331

<210> 34234  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34234

acctccttaa cnttagaccc aaaatagcca caacagaaca attatgacct ctccagcaac 60  
aagtacaatc ctgggtggag gaatcatccc aaccttagat ggtcgaatcc ttcacaacag 120  
cggcaacaac aacaacaaca acaacaacct tattttcaga atgctgctgg cccaagcaga 180  
ccatatgttc ctccaccaat ccagcaacaa caataacagc aaacagatga ggccccctccg 240  
taaccttccc ttgaagaact tgcgaggcaa atgactatgc aaaacatgca gtttcaacaa 300

gagaccacag cctccattca gagcttaact aatcacgtgg gacagtcggc tacacagttc 360  
aatcaacaac agtcccagaa ttatgataga ttaccttttc aatc 404

<210> 34235  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34235

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atcctgtata ctcaaagtgc acgcatgcgt ttttatgata ttataacatg atagacacta 120  
gattctgtaa cttgcctctc actgctaatag aagtagtgaa gaacaatgcg gaaatgactt 180  
atgcgaacag ctcatcatga catgggggatt gccatacatc aacctattgc agatactgat 240  
ataactatct tatgaatcaa taacattcgt tgactaatac tgaaaaccac ttatattatt 300  
aataaattct cattcgatac taagtggggc cactaatgat tactttattg aaattatcat 360  
tatatgcgcc acttaatacc ccacctatat ctcaagcttt atcctctttg agacttctcg 420  
aatctggaat gttatcttga cccaggcaca tcactatact gatcttagcc gc 472

<210> 34236  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 34236

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attcctagaa gccatcttat gaaagataga cactccgagg tactttccca gatccttagt 120  
ccacgccata cccatttgtc cacttagttg atccttgact cgagcctcca catttttgga 180  
aaagaacatt caacatttct ccaacctaat tttctgctta caactcttgc aaaacaaatt 240  
ccaaatatct ctgattgaat ggacctgctc cactaaagcc ttcataaata aaataaggctc 300  
ccatgcaaag gctaagcgag atataactgg accatgtctc acaagacgaa tatggcacca 360  
tactctttg 369

<210> 34237  
<211> 360

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34237  
  
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 gaattgccat tccttggatt ataggattga accaagctca tgctcttaca aaaagggttca 120  
 tcaagtcaag ttgaaatcgc gaagtaaccg tcttgcaaaa ttgggggcaaa agatgaatcg 180  
 agtcacatca ctgcttcctc tactgcctaaa catatttang attgttgatg tccttgttac 240  
 ttncagtttc accttgacaa agttgtcatg gaccatgttg aaaatctaaa ttgattcaac 300  
 cccatatact gcgtaaaaat tcgcaatact tcaactgtac atcattcgca tgcattcatg 360

<210> 34238  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34238  
  
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 cgattatcgt ctccctttcc attattgggg gtaccacctg ngccgccaga tccctccacc 120  
 ttttgggcgt gttctttgaa tgatccgtcc cccttntgc aaatgttctg tagttgcctc 180  
 ctatccagaa ccatatcaaa attgtattga tactgcctaa caaaggcaac cattangtcc 240  
 ttccaagaat ggactcggga agattccaag ttagtgtacc aggtaacagc taccacagta 300  
 agactttctt ggaaggaatg tattancaat tctcatctt ttgcgtattc cccatcttc 360  
 tgacaatata tctttagatg gttcttggga caagtagtcc ccttgtactt gtcaagggtc 420  
 agcaccttga acttggg 437

<210> 34239  
 <211> 323  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34239  
  
 aaacaaacaa gggaatctcg agtccaatat atctatcgct taactcttaa agttcattct 60

caatcaatcg atacatatct caattcgaac gagaacaacc tttaaaactg tccactttac 120  
actttgatct atcttatata atcaagggtg cataatcact tccgttgctg aacgcgtcat 180  
ctcgctgact aatgtctccc ttaaacaatga aaaatacaaa atctataccc tcaacaacgca 240  
aaaagcgnca ctcacatatg cgagcgctaa ctttcgtcca tcacccctca tcaaacaatc 300  
tactttacat atanggacaa atc 323

<210> 34240  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 34240

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cccagctaata catatattac ttttatatct catgagagag gattgatctt catctcatat 120  
gaaaaattgc tgcattctac ctgctatgtt gcagatatac tagcttaacc gttggagaag 180  
aataaaccaa caaggacgg gcgaggaaaa agagaggaaa gtcactgggt ccaattcttt 240  
ctaactttat ttttaacaaa attaacaat caatatctaa tatttattga taaaaaatt 300  
gttcccatgc taactaattg acggacttca ccatttaatt attgtgaaat atatactcta 360  
tatttacaca 370

<210> 34241  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34241

agcttctata gaaggttcgt tcctaatttc tctacaattg catcacctct caatgagctg 60  
gtgaagaaga atgtggcatt tacctagggt gaaaaacaag agcaagcctt tgctttgctc 120  
aaagaaaagc ttactgaggc acctgttcta gctcttcttg acttttctaa aacttttgag 180  
ctanaatgtg atgcctctgg agtgggagtt ggagctgtat tggtacaagg cgggcaccct 240  
attgcttatt ttactgaaaa acttcatagt gccaccctta actacccac ctatgataaa 300  
gagctttatg ccttaataag agccctccac acttggaac attacccttg tttccaggaa 360  
tttgtcatta tagtgatcat caatca 386



<210> 34242  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34242

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 atgggtgcctc ctctcacctc ttctcctttg ttttccgctg catctccatg gtggaaaatc 120  
 accattaaag gacctcattg aagctcaaag atctaacctc catagaagcc ccacaagcaa 180  
 gcttccatca ctccaggttga tcaccatggg gggaagttgc ctgcgcacga caggggtgacc 240  
 ttgatacttg ctctcctagtt ttcctaagtg agagtgtcat gtggacacgc ttangctatt 300  
 tcctgacgaa tgataccata ttgcatttta gagttgagtc acgtgcatgc atcattctga 360  
 gcataatcga tttgaatatg aacaagttga tgactagttt gttaagcgta tgttgaactg 420  
 atg 423

<210> 34243  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 34243

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 gttccaagta ctttggattt ggtccgacca tgccctcctg atttccagct aggaaattgg 120  
 cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt tacggtttta 180  
 aaagctctat agttgggcct aggctttaga gttttcattt tgttaaggct ttgtgtcttt 240  
 tgtttttgaa tttataatac aaggatcttt ctccatctgt tcctgggtctc taccattct 300  
 cattcatttg catgtttact tctttttcta aaaaatggca gattcgatga caagtcccc 360  
 gaaggtacta atacctggga cccgtctatc aactt 395

<210> 34244  
 <211> 436  
 <212> DNA  
 <213> Glycine max



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cataattatt aatcaaggta acataattgt atgcacttag ttactatatt aaatggattg 300  
attgatttgt taaaatttta ttttaaagta atcaaaaata aattgtaaca ttattatttt 360  
tatttttttg aatttgaact aatttgaatt aactaattaa aatagaatta atgacactta 420  
gctaattgctg aatg 434

<210> 34247  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 34247

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gtcacacgct cgcttctacc ggactccatc aatcatttcc tcgccacctg cacaccacac 120  
aagcacgcgc gttaacattt ttttttttg cctctttccg acaagtgaag attaccgaag 180  
tagattttgt ctctttcgat aaagcctttt ccataaaca coagttaatc aaagccatgc 240  
ttaaaggaa cctagctacc taccaacatt gttggtacgc gcgcgttaac attaacggat 300  
ccaaacaatg ccgttcgaga ttcatgtgtt tctcattagt tgcgcgtaaa taacggaaag 360  
aaagaacaac gtccgcgctg tgaacagaga ttaat 395

<210> 34248  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34248

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ccgagggata aacacatcta aagtaagggtg ttagattata tgataatata ttctgatttt 120  
atataattct tatatctatt agatttatct ttagtcatat ctttagctat taggtttatc 180  
tttagttnta tagttgttat atctattcga tttatcttta gccattccat tagatttate 240  
tttagccata tcttttagctt atatatcttt agcttgtaac cttatatata agagaatggt 300  
gcttaatgaa ttattcaagg aaacaatttc tttcatggta tcagattgct taaggaaata 360  
tttttgaacc ttctcagcc ttccgcacac aggccctagc gtcgttttagc ccctttcttc 420

ttctttctccc cttcttct

438

<210> 34249  
<211> 309  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34249

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ccatctacca aacttatatt atacacaccc actccctagc cacctatcct tccacaaacc 120  
tactagatct ccaattctcc actccatcat cttctcaaac caccatcac ttccacntcc 180  
acacacttgc cttatgttgc tccaccacac gaatggatag tgcctccac cattctcgct 240  
attnnttcac ataccttgaa atcatattat gtataacttt ttccattctc tatacatcac 300  
ttattctct 309

<210> 34250  
<211> 320  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34250

gcctcctatt aaactgtctg acatcttgat tccttaccta tatagtaaag atactgccga 60  
gaggttgtat ctaggttctt tgggcataac gtgatgccgg ttggccaaga gcctgaaaac 120  
caacatgtga gtagtgtcct gacttaaatg caaccaagt aaaactctct tgtctcatalc 180  
agteccaagc cccaattgt aatctttgat gagtaatttg aactgattg gatgctggga 240  
ttttgaaagc agaatatatt aattctgttn gtgtcctatc taaaattaca tatectacca 300  
aattgctaatt gcgtggattt 320

<210> 34251  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 34251

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gtgatagaag tcaactgagac acgccgataa aggacaatga caaaataggc gtctacaaag 120  
 tgcttcacta gaaaacgaac ggcgagctaa aggcgatggc caaaaaacac gttgaaaaga 180  
 gacaacgata gaatacgcaa tcaaaatgat ttgttgaaa atgaacaaca aacaaaagga 240  
 ggtggcaacc atcgtagaga gagacgaaca aaaaatcatg aaccaataaa gtgcataaaa 300  
 acgtgttttc gtactgggtc caactaaatg atcatgtatg tatggggaca aaac 354

<210> 34252  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34252

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 cctcaccacc agattttctga gcaactcctt cttcaatatt tctatgaggg acttagcaac 120  
 atggagagga gtatgattga tgctaccagt ggtggagctc ttggtgatat gaccctgat 180  
 gaggctagga atttgattga gaagatggct tccaactccc aacaattcaa tgcaagaaat 240  
 ggtgctatta ttcttanagg agtccatgag gtggccatgg attcatcttc atctactgaa 300  
 aataaaaagt ttgaaggaaa acttgatgcc ttggtcaacc tagtaactca gcttgccatg 360  
 aatcaaaaat ctgcacctgt tgcaagagta tgtggtctat gttcttctac agatcaccat 420  
 acagatcttt gtccttcttt acagcaa 447

<210> 34253  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 34253

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 acgtccaaca atggttgaaa cttttgcgaa attcctcaca gaaaacgtta ccgaaacgtt 120  
 tcggaagcgc ctccgcttag attttcttca cggaacaat ttttccaagc aaattccaaa 180  
 gagagagaag tgctcacgg gctgaacccc ttcttcttc acttctctcc ctatttatat 240  
 caaaatacgg gaggtggctg tcgcccagct cgcccaggcg agccaggatg cttccttcac 300

aacaacacgc ttctggagga atattcta

328

<210> 34254  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 34254

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tccctaagtc cagctcttaa atggagtact tccatttggt gtctatattc ttcaatactc 120  
atactccctt gtctaagcct ttggagcttg ccataagct ccctttcaga gtaggaggga 180  
atgtgcttct tcctaagggc actcttaaga ttattccaat actctactgg aggatcccca 240  
tgaatccttc attccataac aagggaagtc caccaataga gagcctaccc ttgaaagcta 300  
acggtagcca atggaacttt tctttcttcg ctaatatgat ggcaagcaaa gagttgctca 360  
accttcattt cccaatctaa gtaggcctca ccattatctt ttccatggaa atatggga 418

<210> 34255  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34255

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aatctgtacc tgctgcaagg gtttgtggtt tgtgctcttc tgctgaccac catacagacc 120  
tttgcccttc catgcagcat cctgcagcaa tcgagcagcc tgaagcttat gctgcaaata 180  
tttacaatat acctctcaa cctcaacatc aaaatcaacc acatcacaac aattatgacc 240  
tctgcagcaa cagatacaac cctgtatgga cgaatcacco taacctcaaa tggtcacnc 300  
ctcatcacca accacagcag cctcgctctt 330

<210> 34256  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34256

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 tgaggaagga acccgtgttg tggtgtcat tctacatgg ccaaacttcc caccagccca 120  
 acaatgtcat cgctcagcca atatcgcccc ttctccttac ccaccacca atcatccata 180  
 aaggctatcc ctaaatacat cacaagttt gctagccgca catccaatgt aaagggcaaa 240  
 ccgaaacacc aaccaagaaa tgaattttgc agcgaataag cctgtagaat tcaccccaat 300  
 tccatgcct atgtgtgattt gctcccatat ctacttgata atgcaatggg agccataacc 360  
 ncttgccaag gtcctcaacc t 381

<210> 34257  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 34257  
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 atgacaaaca tctaaagagt cagttaccta acaattccta tgcaggtgaa tcttccactg 120  
 gtaattctga tttaccgaac caacatatcc ctcttccatt ccctccaaga gcaatttcca 180  
 caccaacaac ggaacacgca tacaacgaaa tcttggaac atttacaaaa gtagacgtcc 240  
 acatacctct gctggatgca ctaaagccaa ttccaagaca tgccacattc ttgaacgagc 300  
 tgtgcact 308

<210> 34258  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 34258  
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 atattggcac cctttttaat ggcaagtgcg acatagagta ggaagttggc agtgtggatc 120  
 tatatcccaa aattacatat tgaactttat aatcatgagt tcctttatag attgggatct 180  
 atcctcgtag cattctaagg tctagtttgc acatgtatgt gtcaaattgg atttgaatgt 240  
 gcctctacaa ccaaaagtta tagcccgagg atacttggtg aagttacaat atgagggatt 300  
 gcataaaatc tatttcaaat gcataaggta tggtcataag gagaataatt gtgtaagtgt 360

tggaatgaca caggagcata ggaggagata agtacaccaa ttggagtggg tggcgatagc 420  
aatcacaata tgacg 435

<210> 34259  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34259

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tcttctatct tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcacg ttctttggag 180  
gatagacatg tggaggagta gctagtttct tgggggtgcc atangtaaca attgtccttt 240  
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
gtgaagttta cattgaaccg ttcacacac agctgactga tgctgatcaa gtttgccgct 360  
agtccttca ccagcagtac 380

<210> 34260  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34260

cttgagcaat tcanatggg tgaacttttc acttttagtt ctgattctgg cacatcacat 60  
atatagacgc tcgaaattga acaacggaag ctctccagat attcaaattg tcataacttt 120  
taacttggag gtccgattct ggcacataat atatcgagac gcccgaaatt gaacaacgga 180  
agcacttgag aaaatcaaatt ggtcattact tttaactcga aggtccgatt caagcacatc 240  
acatatagag acgctcgaaa ttgaacaacg gaagctctcg agatattcaa atgattataa 300  
cttttaactc ggagggtccga ttcaggcgca taaaatatag aaactgtcga aattgaacaa 360  
tggaagctct cgagcaattc aaatgggtcat aacttttcat tcggagggtct gatactagcg 420  
catgatatat cgagacgct 439

<210> 34261



<211> 385  
 <212> DNA  
 <213> Glycine max

<400> 34261

agcttttaaat aagaaatatg agtaacaaat gaacatatgg tatcattgat atttgatcca 60  
 atacaacgac agagattcat gttatgtctt aagtgttgga tttggactca atcaaagatc 120  
 aaaaccatca tatcaacaag cactaatgtg tacaaaaagt tgctagcttt tacatccact 180  
 tcattcaaaa ttccttagat tttgattttc aatcgtaagg gtatcttcat tttttttaag 240  
 aaattatatt tgtacaaaaa atcttacaat aaaaaagaga gaggaagag aaaattttga 300  
 aatgtaataa atgatatgga aggaaaacat agacatataa aatgatatta tataaattgc 360  
 tgcaagaatt gctgtacatg tatta 385

<210> 34262  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 34262

ctataaaaact cagcttgggg ctgcgtggct tgtagttcct atgagcttgg gagtttttga 60  
 agtgagggggg aagagttttg ggtgaagaaa acgttcccc tccacctctt tatattttcg 120  
 tacagggggtt gctcgcccag gcgagctaac ctgtaccctt tttttttttt tttgagggga 180  
 acattaacca tgtctcctcc ttccttatgg gttagcgttt gccacttga acctacttaa 240  
 attagaatta ggtgtcgatt acttatttta aacaaacaat agtaaaagaa actgcgaatg 300  
 caaaggatac tgggctgcct tgcaacgacg ttctctgctt gtttagtgcc gggaaggggc 360  
 aacgatcggt cggtcgtgac cttatcccca cttgcatcgg tccctatgta cctgtaagta 420

<210> 34263  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 34263

agcttaaggc tacaaatata acactttcat gttaagtttg ggcttccacc tctgcaaac 60  
 cctccttcca ttatgttaat cacacctcgt agccaagtct tgagtgggaa agtctcactc 120

tagcacaatg attctgtcgt ctcttgagtc tagttgcaact ctcggtctta ttgcattccc 180  
 tttcttgctc tcatgaaggt tccttatcct taatgaatct ctgcagctac cccttctaaa 240  
 tcaatttttc tattttttcc ttgagggttaa cgcattcctt agtgttttga ccaatgactc 300  
 actgataacg acaatatttg gacttggcta ctccctagtg aggtcactct ctagaccaca 360  
 actgaatta 369

<210> 34264  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34264

tttatctatc tattatgaaa catgggttaac ttaaaaatat gatttatgat cgtgctttta 60  
 gcgtttattg aattcaggga aatcctaaat ctatatataa cgcaatttgg gtttttatac 120  
 tattttgaat gccaggagaa atatttgtat gcttctcaac taccatttc tacagcttta 180  
 gtctgtccaa gaatgtggcc ttttcttggt aaaaataatg ttttttttta tttttttaga 240  
 aaatacatte taagatgtcc cccttgatat ctccctacct ggactacttt tagtaacttt 300  
 gtaatgcatt cttattagac aatgatacaa acattcctaa taacatcttt gaagcatgtg 360  
 atggtaagat tgatgatgct tatgtggagc catcatttgc tgttgngaaa tct 413

<210> 34265  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 34265

agctttatcc aagacaaaga aattaaagat attcaagatg gatgatcaag acaagtctct 60  
 agtcttagaa agggatatatt aaataggagg ggaattccaa ttgaagtagc aaaagggtttg 120  
 accaagaatt ttaagttaaa aagtcttttt caacaaatct actctctggt aatcgattac 180  
 cagtggccaa aactgattta caacagctat taaaatttga attcaaagtt tgcactgtgt 240  
 aatcgattac acatatatgg taatcgatta ccagcagttt ctgaacgttt taattcaaat 300  
 tttaaagctt gtaatcgatt acacacatac tgtaattgat taccagagga gtttttcaga 360  
 aaagattctc aacagtcaca tctttctgtg tg 392

<210> 34266  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34266

tctagattag tgtaccagac ggcgcgcggc cccagccatg ctatcttgga agaagtgcac 60  
 taacaacttt tcatccctag aatgcgcccc catcttgoga caatacattt tgagatgggt 120  
 cttaggataa gtcacccctt tgtacctatc gaaatcaggt accttgaatt ttgggggggat 180  
 gacgatgtcc ggtactaagc aaatatcagc catgtccacg aatggatagt cgccatagcc 240  
 ttcaacaact ctcaatctct cttcgatgag attgagtttc cttttttcct ccgttgccag 300  
 ggggtggcct tctgcggaaca agaattattg ttgtgctggg aggtttcgag gttctcccg 360  
 gaggttgggc tgaggtagtg tgttgggtgc cggccccctg acgtggatcg gngagtanga 420  
 atcgatgtct ccttggg 437

<210> 34267  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 34267

agcttgtctt agcgtctatg cgagacagaa accaactgt tagctatcat cgccaagtac 60  
 caagaagagt tgggtctagc cacggccac gagcatagaa tcgcgatga gtatgccaa 120  
 gtatatgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180  
 atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttcc ccgattgtta 240  
 gccaaaggcca aggcgatggc agacacctac tccgcccccg aagagattca tgggcttctc 300  
 ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ttaggaaact 360  
 tgtatgtct ctcagacctt gactagatac gact 394

<210> 34268  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 34268  
 tggactcaag gagaaacata agatggctct agagtaatgt attaaaaaaa actataaaaa 60  
 aaagactcaa caaacctcta gctttggccc ttgtttttca cactaatttt caattgaaat 120  
 ttaggaacta agattggtat aaaataggca ccaattatag aataaatttt gagccaaaac 180  
 aacaagcata cttccctttc actttttttt cctggatact gatttttctg ccaaattgtg 240  
 tgatgttttag tattttttcc ttttatccaa atcacttggg tcttttttta taaatttttt 300  
 ctagatgtgt agcaaattca gtaaaaattt cagctcaaaa ttcgaagtaa ccaattctca 360  
 gtaattttta caactttgta tgtccaagct gccaacacca gcgatttttt taagcatggt 420  
 atattga 427

<210> 34269  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 34269  
 tttatcctgg tcatggatag atcaccacagg ttcgggtcta taagcaatga caattgcctt 60  
 gtgaagattc gctttcgcta cagcttcggt ggtttccctt aaccaagcca caacctatga 120  
 gtcgccagct cattcttcaa caggcacgtg gtcagagtcc cgagcctcct cccactgctt 180  
 gggagcttac ggtttcatgt tctatttcac tccccgatgg gggttctttt cacccttccc 240  
 tcacggtact acttcactat cggtcaccca ggagtattta gccttgcaag gtggtccttg 300  
 ctgatacaca cgggattcca cgtgccccat cttaatatga attactcaca acgcaattca 360  
 aaataaactt ctttaaagaa caagataaat agcaatcc 398

<210> 34270  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34270

ntaccaagta ttcttgagcc cttcttccat caagcttatg taagtgaact ccattttcaa 60  
 ctctaagggt gatttttact tcatcttctt gttctattct cacttgtagt ttcaaaacct 120  
 tattttgcac acttgacggt tggaaacttg aacctaaact ccctcattct tctttctaaa 180

tttgggtggaa cctataaggg ccaaatttca gttatttttg ggattaaatt gtttagctata 240  
 ataactattg ttttttataa aagccaaagc ctaggctagt tctcccatct tgctaaagat 300  
 tttggagaaa gaggagacca tatttttctt cttcttccaa gctttaccaa gtattcttga 360  
 acccttcttc catcaagctt aagtaagtga cctccattnt caactctaag gctgattntc 420  
 acttcatctt cttattc 437

<210> 34271  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 34271  
 agcttttgtt agaagaatga tggataatct tgatccaatc aaggataact attttctaaa 60  
 aaaggcaaga aagagactga gacttttctga tgtagttggt ttctcaaaat cacatatttg 120  
 accctatttt ctttggtaac tcatttttcta attactacct aacaaatatt ttgaaagaaa 180  
 ataactctta atatacgcg gataggagca ggtaaattcca tattaanaag ctgcaaaatt 240  
 tggcaaagga tacatccaga tcttatgcga tctagttctc cattgaaaat aatcactttc 300  
 cgttcagtgt tcaagaccgc ctctttataa agttcttcca caacaagtat ttctgaaata 360  
 caaggagca gtaatcatga ta 382

<210> 34272  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34272

ttctaactaa atagtgttat gaccatatag atgtgcgtga ttgcattgaa tgagataatg 60  
 tgcaaagtgt ggaatgctaa tttcagttgt tttgatttaa atacacataa ccataacact 120  
 tgtgtgcttg aaagaaacac tatcctcatg agaagtgaag catggttgat cttctttgat 180  
 gtttgtcata cttgctaacc tattttatct ccaagtgcac tcttcgcacg cttctatcat 240  
 gaaaactatg tatgacaaat gtgaacttga gagttagaaa ttgaagttgt ttgaaagata 300  
 tgtagttgtc tcaattattg gggctgatta cattctaaac attgtcattg acctaaacta 360

gtgtagttta gtttactttt gcttgaggag aagaaaagct ctattgnggg agtttgataa 420  
 ttgttatgta tacgtaaatt 440

<210> 34273  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34273

cttaagtcac ctgcggcatg caagctttca ttccccacc attccctccg tattgttttt 60  
 tagtagattt tccaccaccc ttgctcccg aactccatgg ttcagacaat gtagaccaag 120  
 cataaacatc accaccccag tttgtcttgt tattttttta acaagatgca ccacgcccac 180  
 catgcctccc accagctcca tcgttgccaa caggtgtgcc actattttgg gaaggtggag 240  
 accctcctaa agatgatgag tctatataag aattgtatcc cattgtcaga ttggctgcaa 300  
 ataaaaccac agagccagaa acaatggatg catcttgacc aagtctaacg ttgccggata 360  
 cattgactgt tatcatacac ccttncatgg gacataaaag tgacacatca gagagtatc 419

<210> 34274  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34274

tactaagctt acgccttaaa aaaatggccc aaagaggatg caagatttat attataccaa 60  
 caacattacc ttcagtgaag aaagttattt cctatagcat tagccgaaaa agatttaatt 120  
 acaaaatttt atggcatttc ccgttgggga gttttctcaa gcaagtttcg tgcattggcag 180  
 tgtgtgttac tcagaacatg ctgagttatt tttagaagaa aagtaaaaac gtgagagatc 240  
 accaaacctt gggttcagcaa gatgcagtgc agaagcaaaa ccttcgattt gagactgcct 300  
 ccaaagtagt ggagtttcag gggttttaaaa atcgtccctg aacaccaaatt gtcgcttctt 360  
 tgccaagaat cccgtttgaa acccanaaaa nattatagca ggaaccaata aaatggataa 420  
 tggagaa 427

<210> 34275

<211> 125  
 <212> DNA  
 <213> Glycine max

<400> 34275

tttctctgag caaattcaaa cgacaataac tgtggactcg gatgtacgat cgtgccccgt 60  
 aagatatcgg gactctccaa agcgaaagcg catgctatcg cagaagacta acgacaataa 120  
 cttgc 125

<210> 34276  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 34276

atattatttg ttctaatecg acatcctagt caaaagttat tgctgtttga atttgcttac 60  
 agcttcagct ttcaatttcg agcgtcttga tatattacgg ggctcgatca gacatccgag 120  
 taaaaagtta ttgtcgtttg acttttctta cagctcccgt tttaaattac aagcgtctcg 180  
 atatattaga gggctcaatc ggacatccca ataaaaagtt atcgtcgttt gattttccta 240  
 acagcttcgg ttttcaatta cgagcgtctc gatatcctac gggacacaat cggacatccg 300  
 agttaaaatt tattgtcgct tgacttttct tagagctatc gttttcaatg tccagcgtct 360  
 cgatatattc cacgggtcaa tc 382

<210> 34277  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 34277

tgcttgcatg atttacattc tccccctttc tcaagcaaatt tcttaattct tcttgacatc 60  
 atcaaaatct tcatgattta cattctcccc ctttgtcaag caaattcttt ttgatatcat 120  
 caaaacctgc atgatttaaa aaaacaagct agcaattcta atgaatcatc acttcatatc 180  
 ctttcccttt tcaaccaagt tagcactact tcttatacca aaatcccaac atataaaatt 240  
 tacaacaact ttgtacagtt tataacataa tatgcttaag tcaaacattt atttattcac 300  
 aaagaacttg cttccctttt tctttttctt ttctttcttt tcttttctat ccaataattc 360

aatatttaat ttaccttaat accctcattt a

391

<210> 34278  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34278

tgcgaggaaa gaagattgcc gngtggtggt gatgagctgc atcaagtttt ccatcaagaa 60  
gtgcctgagg aagtgcctca gcaagttggt ttgcgcgaa gaccaccacg aagcgatgat 120  
catggtgaag gacatgccgc ctgagccaaa ctggtaccaa gggaagtgga ggagggcaag 180  
gcacaatggg aacaatgagg agtcaaagg agagaataat aacaacaaca agggagttca 240  
aagaaacaga accattgcct tatcagggcc tttggatggg aatggaagaa taattcatga 300  
gaagatggtg aacaacaaca aggtgatgaa actctctggt cctcttgatg ggaaaatgaa 360  
tggtggtaac aatgagagag tgaatgtgta tgcaaagca aatagaagcc cattgat 417

<210> 34279  
<211> 376  
<212> DNA  
<213> Glycine max  
  
<400> 34279

ttgtcttgat aattgatctg gccaccaagt ccaatgcact tctgttatac actctccatc 60  
tctcctctga cttatttatc tatgttgatt cttcctctca aggggtgtaat tggtttagag 120  
gatggaaata gacgagaaat tttttaattg agtagagcgt aaaaggtgtg ggtcccacaa 180  
aaaaggtaaa aaacttatct caaatatttc tctcctctct accaaacaca ccattaatga 240  
atcatgaact cacaataaat cttcctgcat gttgaaaatc aattgtcttt tggctattga 300  
gaatattggt ttaaccact gccccgcct tgctctctga acaccaaccc attcccacat 360  
ctctccatct tgtttc 376

<210> 34280  
<211> 430  
<212> DNA  
<213> Glycine max  
  
<400> 34280



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 atttgaaatt atttatttga ggttataaaa gtgactaatg aaatttctat aagtttttca 120  
 ttgtattgga ccttagatgt aacaaaactt ttgttttggg tgctgtcaa gtagtaagta 180  
 acaatgtagt gtcatatcat cacttagttg acgataaaga ttcaacaaaa gttttgatat 240  
 atcaagacaa taatgtaacc aaaaaattta ttgaagacc ccc aaaataaaaa attgtcattt 300  
 atcatgaatt tcacacatat ttaatctttt cttttattta caagagtctt acgttcgaat 360  
 ttattaataa gctcttattt aataacattc tattgaatag gtgcttcatt aacttcgtta 420  
 cctcaatatt 430

<210> 34281  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 34281  
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 tgattaggca tggctgtaca attctgtata gtaacataaa acttctcgtg tagacaacaa 120  
 caaacatcat tccacatcat ctagccattc aatgactgaa gaaagattca tagaaatttg 180  
 taataacctat caaatatttg tccaaaggga accattgcaa cgtaattagc agccacctgt 240  
 aattacattt catcaggtat tattagagtt gtcagagagg cacatggaag tcaagtcagt 300  
 cttgccatat tgagatcaat atcacttgct gacagaggac ttaactctac tccagacaaa 360  
 ggtcactact cttaagttta ttcaaggggtg aaaaaac 397

<210> 34282  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34282

agatgcttac gggccttgaa acatgtgctt ttgtttcttt gttttatcaa gccattttgg 60  
 gcttagtgct tggtccctca tcaagtctat aatttttagcc attagaatac agtggattag 120  
 ggtaatgctg aacttggtatt atttttcacc ccactcttga ccttaagctt gtttaacaatg 180

ctttgagtat atgttgataa tgataagtta aagagatggc ggaaattaca cttttgaagt 240  
 gtgataaaga taaaagtagt atttttaaga actagaaagt ccaactaaat aagttgcaac 300  
 tacttttaaa gttgctatac tttgcaagtt ccgaaaacct ctggtgtctt gacctatttg 360  
 gcatattgag ttttcatgtt cagaggggaat tctgtttag ttgctaggaa tgcantgtct 420  
 ggaaacaaaa t 431

<210> 34283  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<400> 34283  
 agcttatgcg catatttcct tacaaatgtt ctcttgaca agacattcta ttaaccgaaa 60  
 aaatgcaccc atatacaatc aaggcagctc cgttacctag attatttaca cgtacttcca 120  
 aggtgtatct gttacttaca tcacacacat ctcttggct aaattcacat acatgcatac 180  
 tcaaagcatt ttggattacc aaaaattgca catgtacacc tcttggatt tctaatacct 240  
 atacatacac aaactctatg atgaatcttg actatctaca caataagggtg ctacatttca 300  
 tgctct 306

<210> 34284  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34284

gacacttata gaatactccg cttgtagaat ggctagacat gatacatgtc atggtttggt 60  
 ttggtttaag gataaaaggg atgccccaca ttatttccat gacacaaatg caaaaatgat 120  
 gatttggaag ctttatgcaa aactgggtcat gcatgcacct atgtggacac tcaagtgtca 180  
 aatttttatg gtcattgtat gctagggtc aggattcatt tctctatct tagtcaaccc 240  
 aatgtttcca aaatatgttc ttttatccat atgtgcattc atccgagtc attttgggag 300  
 tccgngagaa ttttcacagc attcaccctt caggtgtata cacatttttc aaaaactagt 360  
 tatgattagt gaattttttt caaagaaaag ttggaagtca tctcttttca aaagcatgtt 420  
 ggtttttcag ctagacaact tatttttctt t 451

<210> 34285  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34285

cgctttgttt cactccctac aagtaagtgc actttgcctt gggtatttgg ctctccattg 60  
 ttgtgttttg gtgctttagt tgctcatatt atgcgaaatt cgtgaagcaa ttcacatatg 120  
 aaaccatact tgttttcgct aaattaaggg gttgtaacgg atggccttaa gcctatgttg 180  
 cattctggag taatggggca tgccacattg ccncattct cttgctattc atgcctaaac 240  
 atgtgcnac caagtgtcg gtataggac aacatgtaca ggtaaaatg agtgctgaa 300  
 tgcaattct acgctaagaa cccaagctct tgatttcaat ac 342

<210> 34286  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 34286

tcttttagtc cttgaacaag caatctactt ctctttcata accatgctat gtgctcgca 60  
 ctgggtccctt tcttcccttc gcaacttgag ttcattattg ctacccata gagctccgag 120  
 aaatttggtc cggccatact cttccttgag agccctcttg gtctcttttt caagggtct 180  
 tgcggttaatt gcattctctt cccgtaacct ggcgactcc ttccgaacgt gtgtagcagc 240  
 caacttgaac ttctccttgg cgagtgttgc ctttctaac tcgcttttga gagcttgagc 300  
 ttctcgtcc tcttccggtg cttcaaaatt ctcttcgctg acgactttta acttggcgag 360  
 ccaatctaaa cctcgatatgc gaactttcaa ccattcgttg taccac 407

<210> 34287  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 34287

gacgtatgct ttcttgtaga gttatgtctc gtctcagttg aatcaattac aagcttatcg 60

taatcgatta caccgtcgat ttgagacaa tgactgattt attcaagatt ctctacttta 120  
atcaatcaca atgagatata atcgattact tctctttcta taagtgtttt agaagaaaac 180  
aagaacactt taatcgattg ctttgagtat ctaattgatt atattgttct tgacgcgctt 240  
ccagtttttg gaagaacact ctactccatt aacaagataa tctaactgat tacttcattg 300  
acctaactag ttatcttgta tatttaaccg attacac 337

<210> 34288  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 34288

tccacaacat ccaagcaaaa caacattcaa acagcactag ctatcacagc caagcaaaaac 60  
agggcaaagg cagaaaactc tgctcaacac actaaccaaa atcacagctt ttctcactta 120  
aagaccccag taacaattcc ttcgatccaa ttcgttaacc gttggatcga ctccaaaatt 180  
ttactgggag tctatagtgc ataagcctac attttgaccg ttgggatcta ctagcaaaca 240  
tccagaactt attctacatt actctttcca caaccagcaa atacatggat ttttctgcac 300  
ttgtgcaaaa ttctgctgca caattttaca gcacaatctg cacaagagc atatttcgaa 360  
aaccacactt cccctcatcc aatc 384

<210> 34289  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 34289

agctctccgt tacttttttt tttttttggg aggggtgaatt ttgacaacag gcagcttgta 60  
ttccattggc attgagtggc cgtgatatat gtggtagcgc cattaccggg tcaaggaagg 120  
caatctcttt gctactttct ttgggtgttt gtttgtaaat ttgtacgtaa tgccttgctt 180  
ctgtgggttcg gtgcctgagt ttctgtatga tgggtgttct tttaatcccc ttgatcata 240  
tctgtctatt gtgcttccat gcaaaccgct cgattttccac tacctacttt acagagggcg 300  
ttgcttcgct caaaccgcat gcgtgcaata aggggtgctca ttcttactcc caccac 356

<210> 34290

<211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34290  
  
 taattgcaat tntgggtcctc gtagttttgc aaatcctcaa ttttcattct cctagnttct 60  
 aattggaaca tttgggtcccc ctgggtcgggt gaacatgttt agaaataaaa acttgtgact 120  
 tgacccaaaa gtcaacgaga ttgaatgggc taggttggat gtgatccaag cactactaaat 180  
 gccaacaca aattgtttgg attagtttgg tttaattcag cttcacgggt gaccggtata 240  
 cttaaacacg agatttaaatt cttgcacctc ccatattgta tcctacacct cccaaaaatg 300  
 tttgaaaaga ctaaatttcc aaaacacctc gtccatacta atcacagtcc taagacttgt 360  
 tatggcacct ccttcacccg tgacaactat gacctcatcc tccacattgc accacc 416

<210> 34291  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34291  
  
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 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaag 120  
 attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180  
 tttcaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240  
 aacttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatc taaagaaaa 300  
 catgcaaagt cgtacgtgca catgaaattg acccaaaata ttaaactgaa aatccgacga 360  
 aactaacaac attaacaagt taacacaact aac 393

<210> 34292  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34292  
  
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tcttcacgtt tgaaaacacc ataactaaac ggcgcgcaag ggatccctat cgcaccagat 120  
 ccaaattctag aacgatgggc gatcaagagg agacacagga acagatgaaa gccgacatgt 180  
 cggctctgaa agaacaaatg gcctccatga tggaggccat gttaggatatg aagcagctca 240  
 tagagaagaa cgcggccacc gccgcgctg tcagttcggc tgccgaagca ggcccgactc 300  
 ccttggaac tacgcaccat cctccctcaa acatagtagg acgngaggag gacgcactgn 360  
 ggcacgatgg cagccctcac ctgggataca accgagcggc ttacccttat ggattgccgc 420  
 ccaactattc accacca 438

<210> 34293  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34293

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 caatagcatc acttctggcc gtggtcctgc aagcaaggaa atctttttct aagaatactc 120  
 tcttgaggtc atcccagctc gtgatagacc gtggagcaag gtaataaagc cagtcctttg 180  
 ccaactccctc tanagaatga ngaaaagcct ttaaaaatat gtgatccctc tgcacatcta 240  
 cgggtttcat ggtggagcac accatatgga attctttcag atgtttgtat gggctctcac 300  
 ctgcaacgcc atgaccactt ggagcaaagc gactcaatca gttctaagaa catatgggac 360  
 atcctcatct ggttattgga tgcac 385

<210> 34294  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 34294

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 tcgattacca gtatgtttga acattggaat tcaaatttaa ttgtgaagag tcacatcctt 120  
 tcacaaaaaa gctttgtgta atcgattaca ctgatttggc aatcaattac cagtgatagt 180  
 ttctgaacaa aatcaaaaga tgtaactctt ccaatagttt tcaagttttt cttaaagtca 240  
 taacttttcc aaatgggttt taagtttttc taaagggtat aactcttcta atggtctctt 300

gactagactt gaagagtcta taaaatcaag gctctgattt gcattttatt taaaaaatat 360  
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 tcttcttc 428

<210> 34295  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34295

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 actaagctca cctccttgag aagcttcctt aagaagattc cttaaagaagc tagagcttag 120  
 ctacacatac ctctctaata gctaagctca cctccttgag atgagaatct agaacttagc 180  
 tacacacccc caataatagc taagctcacc cccatgacaa aaaacatgaa aatacaaaaa 240  
 aaaaagtctt tactacaaag actactcaaa atgccccgaa atacaaggct aaaaccctat 300  
 actactagaa tggccaaaat acaaggccca acctaaggaa aaacctattc taatatttac 360  
 aaagataagc gggctcatac ttagcccatg ggctcgaaat cta 403

<210> 34296  
 <211> 343  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34296

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 atctaggtgt acctgaaata attgctactt tagaatacat anaatggccg tgcttaaaga 180  
 atcaatggat cgttgatcat gtaatatcta cctacaagaa agtggtttttt atttttatta 240  
 ttatacaatg gactaaacta ctataaatta atcgagataa tattgtagag tacgcaacga 300  
 attggatcta ttaaaacaaa tattcatgat tataaaaata gat 343

<210> 34297  
 <211> 363

<212> DNA  
<213> Glycine max

<400> 34297

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catggagttg tagcggagga taaaggagaa gaggtgagag gaggcgcat ccactagaga 120  
ataagccatg aaaggagaag cttcatcacc aagagctcct tggataagaa gtttagaaag 180  
gaagcttcaa tggaggaaga gaatgagaga aagagagaag ggggggcgtg gaaattgaag 240  
gagaacacgg agaaaagttg aactttgaag tgtgtctcac aagtttctca ttcatcaaag 300  
ttatggcaag tgttacacat gtttctatct atagcctatc acatgggaaa cttccttgag 360  
aag 363

<210> 34298  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34298

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gcagtggcag gattttttgac tcattgtggt taaataaccc ctcattatag tgcagtactt 120  
gacctctgta tgctataatg cagttgctac accaaaccaa atacttttta tataatatgt 180  
tcaaaactaa agtacttaaa taaaaactgg agaaacaatg ttgggcttgg ttggaaaagg 240  
gtgaaagaga ggctgagggg caggaaaatg cagaggggtat agagacaaac aaagcatgaa 300  
taggtgtttg gctgctggaa acttgagaga gcaaagtgtg gatgagaaac aagcatatgc 360  
ggcttcacga tgcanaaaca aggggtgaagt agtggcaata tgctat 406

<210> 34299  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 34299

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gtcagatctg cggaaagtgc ctcttcatac tagaggcctc acggacgctc taaggactct 120



tccttacctc atatccaaac gctcaatctt tcaggcctaa acaccataaa atctattaca 180  
 cacacaaaca actactacaa ttcattgctt cactatcttt aaacttttaa caagcaaadc 240  
 taccataact attctcgata caactgcttt tatcataaca tat 283

• <210> 34300  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 34300  
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 aggttggttc tagctcgggt cttgatgaaa cctattggat aatgcctaaa gaggcccaag 120  
 tcgcactaaa ttgtgatgta agaattgtcc agtttggttaa agttgtacgt tatggaggag 180  
 ttattcacia tcatgcagtg agatttattt ttgggttttaa gctcagtcaa gagaaggttt 240  
 tgtcctatat gggggatata agtctattct taatagcatc aaacttgctt tgaatataag 300  
 gttctactca attcatattg actcatgctt agttgaggct attgaagcgc tacaggataa 360  
 ttgagatcgt cttcgtactc attaccaact aattcaagag atccatttgg tgcattg 416

<210> 34301  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34301

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 ccagatttac ctgngtaaac tttatcagag agaaatcaga aacctttgaa gtattcaaag 180  
 agttgagtct aagacttcaa agagagaaag actgtgtcat caagagaatc aggagtgacc 240  
 atggcagaga atttgaaaac agcagggtca ctgaattctg cacatctgaa ggcattcactc 300  
 atgagttctc tgcagccatt acaccacaac agaattggat agttgagagg aaaaacagga 360  
 ccttgcaaga ggctgctcgg gtcattg 387

<210> 34302  
 <211> 392

<212> DNA  
 <213> Glycine max  
 <400> 34302  
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 aagttattgt cgtttgaatt ggctcagagc ttcaacattc aatttcgagg gtctcgatat 120  
 attgctgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctcggag 180  
 cttcaacatt caatttcaag cgtctcgata tatgacggga ctcaatcaga catccgagta 240  
 aaaagttatt gccgttggaa tggcttaaaa ggttaacaat taaatttgaa cgcctaaat 300  
 atattacgga actcattcaa acttccgagt aaaacgttat tgctcgttga attgcctaag 360  
 aggttcaaca ttcaatttcg agcgtctcga ta 392

<210> 34303  
 <211> 350  
 <212> DNA  
 <213> Glycine max  
 <400> 34303  
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 agatagtccc gaagaaaacc agcctcaccg tgatcaaaaa tgagaaagag gagttgattc 120  
 ctactcgggt gcagaacagt tggagagttt gcatcgacta taggagactg aaccagggtta 180  
 ccaaaaagga ccattttccc ctgccattca ttgaccaaatt gcttgaatgc cttggaggta 240  
 aatctcacta ctgcttcctt gatgggtttt ctgggttatat gcaaactact attgccccta 300  
 acgatcagga aaaaaccaca ttacttgcc ctttcggcac ttttgcctat 350

<210> 34304  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34304  
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 ccagtcagcg tgactcaaatt gtcagtatga cagatcttgt gagcgcgga gatgacgtaa 120  
 atctacgcgt gtcaacgggc ttgtcggccg tgattgacga agggagcaga agactacggt 180

agtctctgcg tgccatcaag cttttcgtct tacagacagc aaaaaataat ggttatacgg 240  
 atcaccactc gagtatttcc gccagtcagc gtgactcana tgtgagtatg acagatcttg 300  
 tgagcgcgga agatgacgta aatctccgcg tgccaacggg cttgtcggcc gagattgacg 360  
 aagggcgcac aagacgacgt tagtctctgc gtgctatcag gctcttcgct ttacagac 418

<210> 34305  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 34305

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 tgaagaagtc taattattct gatgtgaaac ttgtttctac ttcttataac tcattcatta 120  
 agttaagaa aaacttgagt aacggaattt cttcacataa atattctcaa attattggct 180  
 gcttgctgca ttgacaaac ttctctaagg ctgacattgc atatgcagtt gatagattag 240  
 aaagtaattg agggatttag tgatgcacac tggatttcta attctaacta aacaaaatcg 300  
 acaagcggtt atgtttttac 320

<210> 34306  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34306

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 cattcagtg caagatgaac aaaggctctc tcaacttcag ggagttcttc gatccttacc 120  
 tgcaatgatt ctccaattgc atgtgcttct ttcaagtggaa gatcctccgg tagttctatg 180  
 tccacctggt tatgtccaac atggatacga atttcaaatt agtttatatc aaattccctt 240  
 taaatttggt aacatcaaatt gtgttttatg ttaatacata tcacatggag attgggttaaa 300  
 gcacatgggc ctacatcaca taagaagttc cttctttatt gagaaaaaca tgttttaagt 360  
 tcctaaaata ggataaatta ttatataatn tgcgaccaan attatatatt ccgaactagc 420  
 tntacataat 430

<210> 34307  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34307

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 tattaccatt tttaaataaa tcatgatttt gttattgtcg caacctaccc tacgacggga 120  
 cgacgaagga aaaatcgata agccaaagcg ttcgtctcca agggagaaaa cgagcggagt 180  
 cgccaccaac gtttattcaa ggaaaatggt agaaaaatca aaaagaggta tgcaaatttt 240  
 ggaaataagg gttcagaagt tgtttacgca tggggaaggc attaacaccc cagcgtccg 300  
 tcacaaggga cgacaggctc taatcgagtg tgcataatgc aacttcagaa atatttactt 360  
 ttccctcttt atat 374

<210> 34308  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34308

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 tatgatcttt caagcaacag atacaatcca ggttgagaa atcatccaaa tctgagatag 120  
 gcaagtcctc cacaacaaca acagcctgtc ccttttttcc agaatgctac tggccaagc 180  
 aagccatatg ttctcctcc aatgtagcag cagcaacagc agcagtcaca acaaagacaa 240  
 taagcaactg aggctcctcc tcaaccttcc ttagaagagt tagtgaggca aatgaccatc 300  
 cagaatatgc aatttcagca agagacaaaa gcctccattc agagtctgac aaatcagatg 360  
 gggcagatgg ctactcagtt gaaccaagct tagtccanaa attctgacaa atggccttca 420  
 caaact 426

<210> 34309  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations



aaataattaa tttattaaaa tgaactcaat cataaattgt taattaagta tgatataaat 240  
 ttgtcaagtt tttcacaaat tgaccaatTT tatattaatt acttcaaaaa tgatatttat 300  
 gacaatttat aattaaatat tattagttaa aatattctac ttagtgtatc gaaattaaaa 360  
 ttttaaataa ttgatatata ttgcgtataa ttattttn 398

<210> 34312  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 34312  
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 gcgcatatcc acttgtaatt ccaaattgtc aaacctctca ccaacaaagg tttgaagacc 120  
 atcaaacctg tccaaaatct ttgaaaggag agatgaatct tctccatcat gtccttctac 180  
 accaacaatg cgaccacctt tcttcaccta agagccatca tgctcctttt gataacccaaa 240  
 agatgctatg actgaagcgc ctataaggaa agatctcttg attggaacat aagggtcaca 300  
 atcaagaggg atgttgaagt gttgaaggaa aagggttaaca agatgagggg aaggcaatgg 360  
 agcattcaat cgcaatgcct tatgcatgcg atatctaaca agatgtgccc aatcaattcg 420  
 taaaccttta tg 432

<210> 34313  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 34313  
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 aaaagtaatt tttttagtag tagtaatagt cattcactct ataagtccaa caaaataaat 120  
 actttccttg tgtccatagc gctgcctatt aagtatacca ttcattgaaac ttacaaatac 180  
 ttttactata atataactat attaaaatat taacttgcac taatatatat taaatataaa 240  
 cataatatta atatatatat atatatatat atatatatat atatatatat 300  
 atattaacgt cgatgtatat caacatgata tattaaaata ttaatataga tctacattaa 360  
 tatacatata tcacaatatg aacgcataag tacg 394

<210> 34314  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 34314

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 cttgacatcc atctacaaga cctagtcatg gtacacaaca acaacaaaaa gaatccaaag 180  
 aaatttaagc atcgcaaag gtgagaagg ttcatcatag tctataccat gaacttgctt 240  
 gaaacctttt gccactagtc gtgccttata ggcattcacc tttaccatcc atgttagttt 300  
 tctttctaaa gaccacttac accttatgag gttttacccc ttaatgtgaa tcaaccaacg 360  
 tccaaacttg gttaatgtat atggactcca tctcagatcc cacaacctta agtcacttct 420  
 catatccagg cg 432

<210> 34315  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 34315

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 aacaacctca ccaccatagc aagccatgga taagagctta taggtaggaa aagatgagtg 180  
 gaaggagagg gagagaagg gcacgaaatt ttgtgcctca aatgaggtct taactttgaa 240  
 gtgtaattct caaatgatca aagttgaaaa aatgcacaca cgtgacctta tttatagcat 300  
 aagtgtcaca caaaattgga gggaaatttg aatttctatt caaatttcac ttgaatttga 360  
 aattgaattc gtggaaccaa attttggagc caaaatttca ctg 403

<210> 34316  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 34316







acggngaagg gacgcactgn gacacgatgg tagccctcac ctgcg 405

<210> 34321  
<211> 343  
<212> DNA  
<213> Glycine max

<400> 34321

ctccatttca tcgaagcgca tggccgctag taacacccaaa tcgtcaaacc tctcaccaac 60  
aaaggctaga agaccatcaa acctgcccac cacctttgaa aggagagatg aatcttcacc 120  
atcatgatct tctacaccaa catgtcgacc acctttcttc acctaagagc catcatgctc 180  
cttttgataa ccaaaagatg ctatgactga agcgccctata acgaaagatc tcttgattgg 240  
aacataaggt ccacaatcaa gagggatggt gaagtgttga aggaaaaggg taacaagacg 300  
agggtaaggc aacgggagcat tcaatcgcaa tgccttatgc atg 343

<210> 34322  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34322

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aacaattttt atactagttc actctctatc tctagagaag ctacttcagt tatctaattc 120  
aatatgaatc ggattttcac catgcacata gaattcttac aaacaatcac aatcaatctc 180  
agttcttccc tagaaaaaag gactaaggta cccaacccta ggggcccttg tgaatacgag 240  
cctaagagac acctaccctt atcceaact agaaaatcct attctagcat atatgccttc 300  
aaaaattcat gcatatgcta acaacatgta aaacacatga aaaaatgagt cagagagata 360  
cacaacctga tcattcacat gcaagaacct tttcttgttt n 401

<210> 34323  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 34323

cttaaagagg tccacgaaag ataaagcggc cgtttgaacc agttccgctc ccgagtatga 60







ataatttn

488

<210> 34330  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 34330

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cacttgagac ttatgctacg tatgaaagat tgaagtatat catggtattt tttaaaattg 120  
tttacattag tataaatata tttttcctat taaatcaata ttaaaatatt gttacttttt 180  
tttatttgta ggattcaaag ataagtattg aggctcacag taattcatag agattgtttg 240  
actaactgaa ctagacctca taagtgatat atatatatat atatatatat atatatatct 300  
atatatatct atatgtatat atatatatat atatatatgt atataatcat atcttgtctt 360  
tagttgacaa cacccttgca tgatag 386

<210> 34331  
<211> 443  
<212> DNA  
<213> Glycine max

<400> 34331

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ttaaaaaaac tatgagtagt agataaaaat aaaatgtat gttgttattc aagaaaaaga 120  
aaagctaagt gtggaaaggc tagtaacaga gctggagtaa aaagaaaaag gttaatctat 180  
ggatgaatgc tctcctataa cttacgtttg cagcctacaa aaaccatgat ttgtttgcag 240  
cctagcctca ttacaagcct agtcaaagtc cttcggattc aagtttgtgt gttcttgact 300  
gtatggtagt agatgaagtg cacagattga gacttatgtt ggttggtgac tgatggatag 360  
cctatacact actgcttgag tgaaataata gctgtgaggc tttggttaat aatcctgtct 420  
tgatatctat cattcctact aac 443

<210> 34332  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 34332

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caccaagcta tcagcaaata tagcacctaa taattagaac ttgataaaaa ataaataaga 120
attctgcaca aaggggtata ctaagcccaa ctacatcaag atatgttcat caaagtgaag 180
aggacataca agaggccac tactcatata tgatgacatg gaaggcattt ttagcctagc 240
cttaagccaa aacaactcct aaccttaatc atgtcaatca cctcagcaaa atccaactat 300
gctcaatgga aacatattat gattcaatgt taacaatagc ttccagcact ccgagactnt 360
gtttccatgt gccaaatcat agag 384
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<210> 34333  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 34333

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aagatgtcca aattctttat tgttctcatt gtcaatccgt cagcttatcc tcaagcgatc 120
catgtatgca gaaggccgtt tatacagtga atttaagatg gcttacgttc taacctgcct 180
catcaacctg tcaaccattc acaatgagag tgctagttaa aatattataa aataaaaaat 240
ataaaaaatc tttcgaagag gctaaataat tgttgttact aaaccttata aaaacatcat 300
aaatggttca aaactttcaa atgagttctga aaacataggg acatgtcata atttttcaaa 360
atagatgaaa cgcgaaagtg atcctataac agtgtaacca aacatgagat acacatctcc 420
accg 424
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<210> 34334  
 <211> 220  
 <212> DNA  
 <213> Glycine max

<400> 34334

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gagtcgagaa tactctatta tttatttggg caagtttgaa tatgatgtac aagaaaaatg 60
aatgtgaacc tttttccctt ttgaaagact tgtaaaaaaa aatgttttaa aaatactttt 120
aattaatatt tgaatttttt ttatctctta ttagcatata tgtgacgggt agacggtgtc 180
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acaagtggta cctcgacacc ggcgcaagca accacatgtg

220

<210> 34335  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 34335

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aactataagt agtaataaaa aataaaaatg tatgttggtta ttcaagaaaa agaaaagcta 120  
agtgtggaaa ggcaagtaac agagctggag taaaaagaaa aagggttaatc tatggatgaa 180  
tgctctccta taacttaagt ttgcagccta aaaaaacat gatttgtttg cagcctagcc 240  
tcattacaag cctagtaaaa gtccttcgga ttcaagtttg tgtgttccttg actgtatggt 300  
atgagatgaa gtgcaaagat tgagacttat gttggttggt gactgatgga tagcctaaac 360  
actagtgctt gagtgaata ctagctgtga ggctttggtt aataatcctt ccttgatata 420  
tatcattcct actaac 436

<210> 34336  
<211> 212  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34336

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ttgtacatgt ttgattattc ttgctgatat ctgatactct actntattgc catgtattcg 120  
catcatctag aaccataatc tacctcttgg ttgactcac catttgtgtc tacctagctc 180  
ttgtattaag atggcaacca tacgaaagtt tc 212

<210> 34337  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34337

ctagcacact tcagagatct tcgaaaagat cccaacggtc agatcattga caagtgtcnt 60



ttgaagttgc agaccaaatt tcgagaagat ccaacagtta acaaaggctg ggcagcgttt 120  
 ttaccgagac agcttcatgt agttttctct agaagcttca ttaagaggct tcttccaaaa 180  
 gcttcattaa gaggcttcta gaacactcca gacatcttct caaagatccc aacggtcaga 240  
 tcatggaaaa atatcttgtg aagttgcaga ccaaatttgg aaaagatcca acgggttaacg 300  
 aacactgggc atcgttttta ccgaggcagc tacatgtagc tntctctaga agcttcatta 360  
 agaggcttcc tccagaagct tctcgtggc ttctttgaga agctttctcg agagggcttc 420  
 ttgagaagct agan 434

<210> 34338  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34338

atacccttca cttgcaagaa ccacttctca taacaacatc actcactctt ctgctagtgt 60  
 ccacaacaat ctacttagtc caaaagaaat tcataatact ggggcatcta gttcgtctaa 120  
 actttggcat caaagactag gccatcctaa caaggatgca ctagcaattg tactaaataa 180  
 atgtaatata ccctttatca ataaaactag cagcgatttt tgtaattctt gctctatagc 240  
 caaatctcac aaactaccct cttatccctc ttctactgta tatactgcac ctcttgaatt 300  
 agtattcttt gatgtttggg ggccctcttt agatagtcac cttgtggatt cttgtatctc 360  
 ctaacttggtg ttgatgccta ttccatattc acctggattt atctgcttaa tcataaatct 420  
 gaccgttctn 430

<210> 34339  
 <211> 164  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34339

gcatctgtgc ggtatttcac accgcatatg gtgcactctc agtacaatct gctctgatgc 60  
 cgcatagtta agccagcccc gacacccgcc aacacccgct gacgcgaacc ccttgccgnc 120  
 gcatctaatt aacttcgata atgatgctat acaagtttat cgtg 164

<210> 34340  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 34340

ttttctcggc gttggggaga ttcatatata cggtcgaacc tgcaccggtg tcctctgctc 60  
 gcatectctt tccagggata ttagggagag aaccgtgtta ctcttattac agctcacctg 120  
 atgtagaatg ttgcacaacg gtgagctgga acaaccaaac tggttcccaa agacccgaat 180  
 aatctgttat ctgtcttatt attaaagaaa acatgcacac ggccttaaag cgcttacttg 240  
 tatagggtgcc ttgattcccc tgaatttggc tccatctaata ggagtataa tatgcgccta 300  
 aaattatgct gttattcgaa cttagattta acattatttc tttctttaag gcgttagcta 360  
 taagtatatc gctaagatta ttcccttttg tttggcccg 399

<210> 34341  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34341

agagtggggtt tgtgcttcgc tcntcgnac actagagaca ctaaaactta tcgcccttac 60  
 gcactttacc ttatttagaa gaatctttgt gtgtattgtg aatacagtta ctgagataag 120  
 gtgacattgg cttaggcatt gactgaaaga agatcttgga gaaacgaaat gagagtgcct 180  
 acaatttagc tcatgcaact ctatttcacg ctgatgcacg agacatagta tattatactt 240  
 tgatagcttc ttctcctata actggacatg agatatgact atcgcatcga cgtcatatca 300  
 gactcgaca aaatggttca cacagacatg atcactatct tgatgagaaa aaggataaccg 360  
 agctctgccg acagtgacta taacatgtac actactcatg ccttctagca ctcatgatta 420  
 tatatactca tggccctttgc acaagcgcaa gccttaggat tggagcgatc cttgatgcat 480  
 agat 484

<210> 34342  
 <211> 374  
 <212> DNA

<213> Glycine max

<400> 34342

gtgaagaatt cagcttgaca tccatttata gtggtcacag ctgatgataa agcagaggta 60  
tgtacaacct tgacatgctt tgtgttcata aaggagttct gcctcaattg gttagatggc 120  
atggttgctt gtaattttct gtctgcatat gaaggaagtt tgagttatat gctttattgt 180  
ccaataaaa tggctgtcat tgctagtaat taagatgctt catggtagta tagattggta 240  
ctatattgtc tcccacatac aaatatttaa tctgagaagt acgttgtggg tagatgctag 300  
tgtatacaaa agtcagttcc gagctctggg attttctttg ttcttgcgac tgttacctat 360  
ctgtgtaata ctag 374

<210> 34343

<211> 354

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34343

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actacgggaa acaatcggac atccgagtaa aaaggttttg ctgcttgaat tttctaagag 120  
gttatgattt caattctgag cgtctcgata tattacgaga ctcaatcacg catccgagta 180  
aaaagttatt gtcgtagat ttttcttaca gcttctatatt ccgattatga gcgtctcgat 240  
atattacgag attcattcgg acatccgagt aaaaagctat tgctgctcga ttctgctcaa 300  
agcttctggt atgaatttcg agtgctcca tatactacng gacacaatcg gaca 354

<210> 34344

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34344

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atcgagacgc tcaaaattta gaacacaagc tctgcgcaa atcaaacgac aataactttt 120  
tactcagatg tccgattgtg tcccacagta tatcgaggcg ctcgaaattt ataacaaaag 180

ctctgagcaa aatcaaacga caataacatc ttactcgaat gtctgattgc gtcccatagt 240  
 atatcgagat gctcgaaatt taaaacagaa gctctgagca aatcaaacg acaataactt 300  
 ttactctga tgtccgaatg agtcctgtaa tatatcgaga cgttggaaat tcaaaacaga 360  
 agctctgagc taaatcaaac gacaataact tttactcga atgttcgatt gtgtcccgtg 420  
 aataacgaag 430

<210> 34345  
 <211> 315  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34345

agcttgatat gaggaagtgt tgaaggggtga aactgtctgc ttttattgct gaccacacag 60  
 cggtacctgg agatatgtcg cgggggtcag gagacctcgg ggacgtcagg tgggggtgcta 120  
 ttgccccaaa ccaagcttga ccaatccnga cccaaccggg gcatagtcgg tcaactgagaa 180  
 cctgtgatgt acctaagcac gcgagctcct ggcagtcaac agatacaacg aacaaagacc 240  
 acacagcaag gaggcttgtg gtggctggcc acctgcgaaa cttgattgat atgtgagata 300  
 tggctctctgg caatc 315

<210> 34346  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 34346

tgagatgagg aagtgttgaa gggtgaaact tcttgctttt attgttgacc acagagtggg 60  
 acctggagat atgtcgcggg ggtcaggaca ccttggggac gtcaggtggg gtgctattgc 120  
 ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180  
 tgatgtacct aagcaggcga tctcctggca gtcaacacat aaaaggaaaa caagaccaca 240  
 aagcaaggag gcttgtggtg gctggccagc tgtgaatttt gtgtaatatg tggatggcgg 300  
 cctctggtaa tcgattacaa ggcttaaaat tgaggacagg aggctaagat ggtctctggt 360  
 aatcgattac caaggggtgt aatcgattac caggcttgaa aacgaagcca cgaaacttac 420  
 ggagcctc 428

<210> 34347  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 34347

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 tgcaaccgca caacattatc ttctgategc atggatctga tggttatatg gcgccaaaca 120  
 agtccctttc gcattcagat cctgagagtt tttctaattc ttgtggcggg gcgtttaaca 180  
 accgcgggtg tggctggtag cactgcaccc gcggaagaag ccgggggtcgt ggttggcctg 240  
 ctaactctca cgtgcaagtc tgctgaagt atggtcacac tacctcactc ctgtattatc 300  
 gacacgagca acattatcaa ccacacccaa ctctcgtcgc tcaggatcta ctactatgcg 360

<210> 34348  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 34348

tcgcaagttt gaagggtatt attattatgg cacagtttta tcacgcatgg tcgcctgaag 60  
 ctgctcttga atggggaggg tgtgtcttct gttttggagc acatagatcc ttttctctac 120  
 aagtgcagat cagttcacac ccacaagaga agaacaaggt acgcaggttc ttctgccaga 180  
 atttactatg catcaacatc atctctgagt agcaaaagcc accgttgtaa tgcggaggca 240  
 cgtcacactt ctggcaatgg gagtgttcat gatgaatatg atgacattga tgatgatgag 300  
 gatgacgatg atgacgagga ggacgacgag gatgtgtttg acccacatgg cttgtcttgt 360  
 atccggagtt tgggtgttga cattgcttac aggccacttt catctcttac acaatcgcat 420  
 cttttttaac ta 432

<210> 34349  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34349

agctttgttc tatccctang cataaaaccc attaggtgtt cctctccatt tctaagttca 60  
 aaagcatttc ccaatgacaa ttcaaaccctt caagcaaagg gtgatcaagc caaaacaagc 120  
 attaatgcat agaagagAAC acttgataat gaacaataaa catagattaa taatcaaaat 180  
 gtaaacatta cgatggggtc acttacatca accccaaaat gggtaaattct aactacataa 240  
 ctaccagaag aaaagaagaa aatagatgaa agagatgatg aaaaatggca agagagagct 300  
 tcncgctgc aacctacaac cctagatagt tctcctaacc aaatctttct tcaattcgca 360  
 tccttggaac ttanatatgg ccaaacacac t 391

<210> 34350  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34350

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 tctcgagcaa tagcctctgc ttttctttat ctogatagtt atcgcaccta atatgcagtt 120  
 aatcatctat gtgtgggtgat tctctgggtc aagcttgatt cgtgatatgg tatcagagtt 180  
 cttccattga agagctctgc tgcacaatca agagaagttt tcaaagcaat ttatcctttc 240  
 ttcacctctg ttttgagttt tgtaacatct caattttcgt aaactagatt aaaaggaatt 300  
 gttatttata aataaataga attctaaaaa taatgatgag attttataaa taaataaata 360  
 acgagatata attattaatt aaaataataa ttcgagagaa aataaaaagg atattttatt 420  
 catctgttt 429

<210> 34351  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <400> 34351

aagcttgctt gattcgctag agcttagcta cacacgcgcc tctaatagct gaacggacct 60  
 ccctgagaag cttagagcata tctgcgcaca cgctctaatt gactaagctc gcctccttga 120  
 gatgagaagc tggagggttaa cttagacacat ccctataat agctaagctc accccatgcc 180  
 ttaacacaag aaagtactat aatgtcccta ctacaaagac tgctcaaat gcctgaaat 240



<213> Glycine max

<223> unsure at all n locations

<400> 34354

agcttcataa tgacaatatc ttggaccgtt gtcgccattc tagagctcaa ttccactttc 60  
ccccctcgtc aaaccactt gtcgggtcct ttgtgatttc caaccctatg atccctatca 120  
aatgcctctc atcgaaggac atggtcattc gacacaacaa aggcttctac tgttggaaaa 180  
gagaacgtta tacgaattaa ttgagagaaa tagacgagag aatatctgaa agacgactag 240  
cttttatgac ttgagaaatt tcttggtttg gctttctttc tttggctttc nttggttcac 300  
ttacaaatga caatctttcc cccttttat 329

<210> 34355

<211> 437

<212> DNA

<213> Glycine max

<400> 34355

tgcttgagaa acttccttga gaaacttggt tgagaagctt tcttgataag ctagagctta 60  
gctacacacc cctctaatag ctaagctcac ctcttgaga agctagagct tagctacaca 120  
caccctcta atagctaagc tcgcctcctt gagatgagaa gctagagggt aactatacac 180  
atcccctata atagctaagc tcaccccatg ccaaaataca agaaaataca aaaatgtccc 240  
tactacaaag actgctcaaa atgccctgaa atacaaggct aaaaccatat actaatataa 300  
tagccaaaat acaaggccca aaagaaggaa aaacctattg taatatattac aaagaagagt 360  
ggaccaacc ttggcccatg ggctaaaaaa tctaccctta ggttcatgag aaacctagag 420  
ccttctttag cagctct 437

<210> 34356

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34356

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gtaagggtgaa gaaagcatcg catttggtgtt cccttgactc agaaagcgag atttgatccc 120



gtaagctttc acgaagatcc gcaagaccat tattaattaa aaaagaaaac atattgagat 180  
tcttgatatg caaaattgat gggggcagtt cattcaaacc tgattgtact aaaaacaacg 240  
ctcgaagaga ttgtggccaa gtgttgctgc taaggctctt aagcgatgag caccgctca 300  
catttaacat ctcaagcttc gggagagagc anatngattc atcaacataa cgcaagcttt 360  
cacaaccacg cataacttaca ta 382

<210> 34357  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 34357  
taaataatttt ggggtgttct gccttttaggg tgttttctac atgagtacaa cgataccttc 60  
tttcttttac tatatatctt cccttttata taccttttat atacattttt ccctttatgc 120  
tttctgacct ttactatgt gtggacacct taatgtgctt ctctttatcc tagataacag 180  
agagaaaaaa tggagcactg gcagacctgg tgagtgggta catttaattt tgccaaaaaa 240  
acaagtgatg ttaccattag cttttcttcc ttatttttat ctctgatttt atcattttatc 300  
atgtaggatg atgttggttg ttttaagtac tatgccaagc ttgtacgaag attgctaatt 360  
gcagtttgtt tcttagaaaa cctgtggaat attgatttgg ttctttattc tatatcacgt 420  
tgtgattctg att 433

<210> 34358  
<211> 312  
<212> DNA  
<213> Glycine max

<400> 34358  
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gcctgataca ttttctatga ctaggcctga tccattaatg agtcttgtgc atgaacagga 120  
agcagtecca ccaatgaaat cacaactaga tgcttatctt gaggagaaca atacttatat 180  
ctctaataat gaaaactcca cttttagtgc cttggagtgg tggacgaata atagtctcaa 240  
atatcaagat tctatccaga tggcaagaga tatactagct gctctaattg caccagctgt 300  
atcacaatct ac 312

<210> 34359  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 34359

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 tcgaccaaaa ctatgttgct aggttttgat aaaccctaag ttaatattaa ttaataattt 120  
 tgcgcttcaa aaaattagaa aagaaattcg gcgatccaaa atttctagat acgcatgcta 180  
 atctgactaa agataagagt gtgttggtgca ttactatcag ttgaagacac caacactatg 240  
 gagtaatgcg actttttgac ttgtgaaatt gctccgtaaa ttttattcat tctctccctt 300  
 ttttgcggt atcacaatgg ataagagaca cacattaaaa ctctaaatt agagattcct 360  
 ataaaattct caaccaagag aaaaattatc ctaaaaaaga aaataagtta tacttacaat 420  
 gtaatacaat tagct 435

<210> 34360  
 <211> 169  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34360

cgcattctgtg cgttatttca caccgcatat ggtgcactct cagtacaatc tgctctgata 60  
 gccgcatatt aagccaagcc cgacaccgcg caacaccgcg tgacgcgaac cccttgcggn 120  
 cggatnaata taacttcgta taagtgtgct cttcgaaatt attacgact 169

<210> 34361  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 34361

agcttgtctc cttacttggt gcttttgctt tggcgtctgc actagctgag cccttcgcca 60  
 attcgctaca gccttggtgt aacgctgcca cgagaccact ttacatagct gcaaaacaag 120  
 aataaaatca tattgcatac tctctccaaa acagtaaaat gagtatgaac aaataatata 180  
 ttattctgtt atctaatac aattgactgt gaatgatagc actcttagcc actataataa 240

ctactgtaaa aatcatacca aacatgattt cttatttgtc gacaatataa atcctctcac 300  
taattaaact cactagcacc 320

<210> 34362  
<211> 373  
<212> DNA  
<213> Glycine max  
<400> 34362

atgtatgggg acaacatgaa ggatttaaaa taagtggccg aatgcgattc taggcctagg 60  
aaccaagct tttaatttca atacaaggaa gcatgactta tgcctaggaa tctaagtttg 120  
gttttgaatg taaaaaggca tgaatattat gacatgtttg agagggtttt attagaattt 180  
aaatttggtt gcccacatgag gaataccttg cacctaggta ccatggaaaa tacctttcaa 240  
cggtatgtat atatgcgaat atatggcata aaaatacctt gcaaagtgtg aatataatgc 300  
ataaaaatac cttgcacagt gtgaatgtat agcagataat gcatttcaaa atctgtatat 360  
gtaggatatg tag 373

<210> 34363  
<211> 357  
<212> DNA  
<213> Glycine max  
<400> 34363

tgataaacga gagcttagcg ccacgctcct ataatagcta cgctcaccca cttcagagac 60  
gatgagctta gctactcaca gactgacttt agattgactc gccaaactctt catgggtacgc 120  
taggagattt gtattcacga atcctatggt agctatgctg acccaatgcc caagtatcag 180  
aatcaacatt catgtcccta ctactaagac tgctcagaat gccctgacat acaaggcttt 240  
aaccatatac tactataata gcgcaaatac tgggcccttc tcaaggacct tcctactgtg 300  
atatttacat agatgagtgg accctacctt ggcccatggg ctgattacca taccctt 357

<210> 34364  
<211> 217  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations





gcacctcccc atatcacctt gaccaacgaa atctctttcc ctcttaggtg ttttgttcgc 360  
 caatcctcga tectcaaagg caatatttca tatgtcaa at tctcttcac ttgtacatca 420  
 tccaattcaa tca 433

<210> 34370  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34370

ttcttatnt cattccggga atttgatcac gaaaaacaag cctgaagtga caggacaaag 60  
 acgtgagtat ctagcaccag cttctatgag aacttctnca acaaacagtg gtcttcttct 120  
 tgcaactact gctcttctc ctgcgaatga cagcaccatg gaagagttgc aacgcgggca 180  
 ttccagctgc aattgctcac tgcaaaaatt ctattctcaa acaagagaag ctcagctgct 240  
 gatacaaacc tggcacactt ttttttttc ttgttaccac ctgcgcctct tattgccata 300  
 cctctctcat tttatctcc 319

<210> 34371  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34371

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 cctccattag tatagttttc gttcaacaga aattaaacta gtaatatagt cattatagat 120  
 ctacaatgag ttctttggat ttttgtttta gaatattagg atttaaaacc aactaattaa 180  
 ataacaatca taggtttcat ttacaattta tatatgtaaa caaattaatt attagatcaa 240  
 aattaattgt cataaaattt attatataaa ttcagatgta ctttgaatat acataagaca 300  
 ttgtagtctt atatatagcg acattaatta ttttataaca taattagcat attagttcgg 360  
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 ttcacttatg a 431

<210> 34372

<211> 313  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34372  
  
 agcttgtcaa ataatgtctg acactattta tcaaacagga ttgccactca aacgctccca 60  
 cagcettaca tcttatattt ttgcgcggtg tcaaagtga catctaatta gtttatcttt 120  
 tgttatttat tgtatcgctg ctgagaacaa tttgaattac aatacaataa ttctatttcc 180  
 tccacatata tattgtctct cttctctcct ctgtttttta taatttcctc ctcacaacca 240  
 acaatcggtat tcaagagctc tattcttacg ggacctgcac catggaacgc gatgcgagag 300  
 aattatgata ttt 313

<210> 34373  
 <211> 304  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34373  
  
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 tcgcttagcg cgacacacta aacaggctta gcgccatcag gcgcttagcc caaattgact 120  
 actggaactt aattggctta gcgagcaagc tcgctaagcc caattccaaa atagagaaga 180  
 aatagcactt agcgagactt actcgcttaa cgcatgaaca aaaactcaga aaactaaatt 240  
 gctttcggct tagcgagact gacttgctta gcccaggctt attcactaaa agagggttggg 300  
 tggc 304

<210> 34374  
 <211> 139  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34374  
  
 tgtattctag ctttgtccgc gtgctcaaag ctttggcca acggattaaa gcgttgctt 60  
 atcttaatga cttatctttg actgatgaat gactcttggc cggccatgga aatcctatac 120  
 atcaagccca cagttggca 139

<210> 34375

<211> 416  
 <212> DNA  
 <213> Glycine max

<400> 34375

tgtgcctcta gtagtaaggt gattgcttct ttatttggtg ttaaaaaaat aatgaagagg 60  
 agcaacacaa taatgagccc atgatacata atgaacctat tatggaagaa ccacaagaag 120  
 taacattaag gaggtctcaa agagaaagga gaccagctat ttcgaatgac tatgtggtat 180  
 acctatataa aacaaaaaca aacttaagca ttaatgataa taatctagtt tcattttcac 240  
 aagctataag atgtgataat tgtgagaagt gggttaaagt catgaaagaa aagataaatt 300  
 ccataaaata taatgggtgt taggaccttg tagaattgcc aaaggggtgt agagatttgg 360  
 ttgtcagtgg gtcttcaaga ctaaagtga ctctcatggc aaccttgagt gttaca 416

<210> 34376  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 34376

tagaagaagt cagtgactat atttcggtgt tgaagatgca agtacaagcc atgaaggctc 60  
 tcgtcgatgt ccttgccaat agtgcttcgt cgccagctcc gatcggtttg agcaaagtga 120  
 atcacaaaaa tattgtgtac ttactactt tatatggtca tatttatctt aattgaactt 180  
 taatttcttt ctatcctata cacattggat atgttcaatc ataatttaca ttatgccttc 240  
 ttcacattca gcataataga tgcaataaac aggagtgata tttgatgaaa taaactcatt 300  
 gccctaataa ttaacgaaat gtgtacattt gatgccaaaga tgtatacatc tacggatatt 360  
 atatataaag tggccctaca taatagaaat gatatag 397

<210> 34377  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 34377

tacaagaaaa ccaaacaatg cttgatcat cttaaagag caaagaattc aagaattatg 60  
 agaatcaatc aaaatcaatt gtgataatcc caatgggtggc actcaaagca tccaagaatc 120



gcacaactca catgggttaaa gcaacattca agagttctca agagttatgc tacatccact 180  
aaccacaatc aatgcatcat ccaaccattc tactcactca ttagtgcac caccacatag 240  
attgcaagag aaactttcca tattattccc aacatgcata agtgttctca caagctctaa 300  
acctcaaacc acatgtcata acattacaaa ataaaagatg aacagtaa ataccacaat 360  
tgctaagaaa aataaaacat aaaactacca catgatgata ttaatatgag atgatgttgt 420  
tattgatgac tatg 434

<210> 34378  
<211> 194  
<212> DNA  
<213> Glycine max

<400> 34378

gcttaatcac tgctaaagca aaatctaacc cgattgtcac actataacct cagctaaata 60  
aaaaaaaggc caaataataa taaaataatc aaaatatctc tgacaaaaaa taaatcaaa 120  
aatcacaaaa atcaatcgga cattcttctt tgaaacgttc cttgaatgaa ttgactaata 180  
accaaagtga aact 194

<210> 34379  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 34379

gtgagccata aaaaaggaga aggacaattt ccaatcattt atgaagcaaa aaaaaggaga 60  
gaaggaaaat ttccaatcaa aggaaaaaag agaggacagg aaattcccaa tcaaagagtg 120  
ggagaaagca aaaagaaaag aaaggaaatt cccaatcaaa gaatgggaga aagaaaaaag 180  
agaaggagaa gaaggaaaga aagctcctga tcaaggatcg aaagaaaaca gaagaaatgt 240  
gcagagaggt ctctggacca gacaatatct gaacaaatac ggaattgtca ccaaatgaac 300  
aaaagaaaga taaggaaacc ataacctaaa agtgggtctc tccctttgat taccaaccaa 360  
aatcctgtgc gtcggtgact tgttcgcctc gcgtcaaaca aaaacagata aagaaaaagc 420  
caacataaaa tcaaaaagc 438

<210> 34380

<211> 406  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34380  
  
 cttatgagag caaaattgcc tcaatcattt ccaaatatgc atgtgaatta ggaagcatca 60  
 acaagaatca agccaaggct attgtgcaag aaatcaatgg ggcaaaacac accaaatgat 120  
 tatgatgatg gatggctcac attctcacia aggtaaactc atcactttca aattgagctt 180  
 tcaaaactat catgacatga agaggagaat caaggatttc aagtcacaaa atgtcaagaa 240  
 cttttatttt caaaacaatt acccatttct tgaacatata ctataattca aagaaaaaca 300  
 tgcaaagtcg tacatgcaca cagaattgac cctcaatatt aaactagaaa tccgacgaaa 360  
 ctaacaacag taacaaatta acacaactaa catattatca aaaccn 406

<210> 34381  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34381  
  
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 cattaagaat tagctctttt ctctctctat tgcctttagt tgagtacacc gttgttcggt 120  
 tctctattta gttcttaacc ctctcatgca acttctttac aaactcttac ctagattccc 180  
 cttctttatg tataaaaaaa gtgtccagtg gaagggggaat gaggtctaac ggcgttaggg 240  
 gatggaaccc atagacaacc tcaaaagggg attgcttggg ggttctatga acccccctgt 300  
 tgtatgaaaa ttctacatga ggaagatcct catcccaaga cttatggttg cttttcagaa 360  
 gagcccttan aagggtggat aaagacctat tcaactacct tgtttgcca tcagtttggt 420  
 gatgacaagt ggta 434

<210> 34382  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34382



tacaagacag ggaacttgac tcggatatgc tttctgtttg taacgtatgt ctgacacaaa 360  
agaaatgctc gttgen 376

<210> 34385  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 34385

ctgttgcaatt ctactaatat atggagttgg tttctgcttt ttctgagaat aacaattggg 60  
tgaccacaac aacgctagag gcggtaaagg acaacggtct ttcaaataaa cctgttatgc 120  
gtgaacaaac attattaact caaatgaacc agggaagtga ttgcctaatt cttagactaa 180  
ctaccttcaa tgtacttgaa caaatgatt tccaaacaca tgaccgaaac atatcatgcg 240  
gtgcacagaa gaatcgggtg gtggttgaat tttaagagga aaaaatgtca tgctttgttg 300  
tagggacaac gatacaagga ttacgttata ccatgatgca atgacatata tcatctccat 360  
tatatccatc cacttgttca cactaacctg aatcaagcaa acatacacat ctaagttatt 420  
taaacttt 428

<210> 34386  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34386

tttttttatt aattccaatc ttattcctca ctgaatgcga aatgaatcac taaatggggg 60  
tataaagctt tttgtggaca agcactctaa ccttaggggt cgcgatcttt tgatgcatgt 120  
gtatttcaag ttgaatggat tatagtcttg tcaaaatttg gatgtgctaa ttacatgtgg 180  
tgcttgagtc taaacacaaa cctatacgca tttggtaagg ctaagtgttt ttctttgaga 240  
gatttctatc accatgatac attcttaatt ttgacttgac tacttgtcca ctttgcat 300  
tgtgatcatg tgttcatgga ttgcttggtta ccttgaaacc attcttccat tttccatctc 360  
tctaatttnt gtgcattggg aggatccatt gaacaatg 398

<210> 34387

<211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34387

tatggattcc aatattaccc caaaagagag catgtttctt anaagttact ttaagggatg 60  
 tcccactaga agctttcaag gctatgctta actttttata tgatgggcaa ttgaatgaca 120  
 aagtaataga ttctggtgct ttgttgctcc aactccttct aagtttctca gctgtgatat 180  
 gacctgctag aatagacatt cctccaaata gcacagcgat aacctatgag atttaatggt 240  
 tcaataaaaa cacaagtcaa tattaaagtt ttaattaaac ttcaaaaaat ttatcgatta 300  
 caaatcctag cagactttct tccaagagta aaattatagg cttaaaggag aaaaaaatg 360  
 gaaataaata aattaataaa aaaattgata attacgtgat ttaagagacc cgtagctaac 420  
 ctgagttgaa tg 432

<210> 34388  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <400> 34388

ccttcgacct aacacgggca tgtttctgtc taagcccgga ttcaaggcgg gttgcagcac 60  
 cggctccgct tcctaactg tactagaggc ggatgccgtg gctttatcct ctatggctat 120  
 ctggagtttt agcatgacct ccgaaatgga agccatttga tctttcaagg ccgatagatc 180  
 ggtcttcacg tgttcctgca cgcctcttc attatacatt tttttggatc gagtgttata 240  
 ggggcgcctt ggcgttatcg tatttatgat gaaactccta aagatatgaa cgacggtgag 300  
 catgcctccg aaacatgagt atgagaatgg atgatcggcg ctcttgata caccccaacg 360  
 tttgtacata acgagaagag tct 383

<210> 34389  
 <211> 350  
 <212> DNA  
 <213> Glycine max  
 <400> 34389

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catgtgagag tgccagatga tgttgtgctt tatgagcatg atactcactc ctatctctga 120  
atctatgggc cagctcctac cacattcgat cttgtgatct gcattataca ttacatattg 180  
agagatatct taattagata tacatgatag ttgcatgatg tgccaagaaa agagagaatc 240  
atggaagttg tgacttacat gccattatct gataaggttg attatctctg accatctgac 300  
tgccaatgat aacgatgggt gatctgacca tttaaaatca attattggtg 350

<210> 34390  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 34390  
agctttaact actttgtgat accaacacag actacactta tgtttaaatt aaaagccccc 60  
tttgtctgac tattttgctt ctgaaaaaca aaaatctggc actcgattaa cacaatgctc 120  
gtttgtcagc gcgaacactg gttgtttcta gacatggaat ctcaaacaag tcagcagatt 180  
atcatttggc gacatgtgtc tcgctaacgt gtcaagttat tactctttac taggcactag 240  
acagccagac ataaatattt tcaatttgct acttcaattc aatcacacaa tgccaacaaa 300  
ccgcataaac aatgaaatcc gatcaccatc aacctacaaa cacaaca 347

<210> 34391  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34391

tctttcaagg gggacatgaa ctatgattgc acccttatat gtgcttataa tttttacatt 60  
tcaactggaag agcaataaca atatgtatgt tcaactttcta gagcatctca atacaccatg 120  
attaatgcac atttttagaa ctccccctc cccctcccc cttttttttt ctaaatttgt 180  
gggtgtgaaa ttataaagca ttaatcaact tgtaattttt cattctatgc aatgatgatt 240  
attatgtttt tatcaagagt ggacattcca acctccaatt tgtgttacta gtctaaaaat 300  
ggtagaattg tttgaaaatc ataccaataa ttttctcaaa cgaaggcatt gtgttggtacc 360  
aattagagat ttgttctgga tgtttagaat gattacgatt atangatgag atacccattg 420

gattatcaaa

430

<210> 34392  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34392

agcttgctgc gtgcacaaga gaaacaagaa gaagaagatc acagaagaac gaagaaggtc 60  
gcggatcaag aagaacgagc acggaagaag atgaaaagct tgggtgcaaa actttaaaaa 120  
aaaatatgca ggggtatttt ttacttttac ccttaagtgc tgggtgcacc agcaataatg 180  
cttgggtgcac ctaagcagcc ccctttatta aacctctaaa gttagttagc cacgtgcaac 240  
acgcgagatt cacgatttct atctttgacg tacgtacacg tagtcgccta gtatcctaca 300  
ttgttggtgcc gcgcaacata atttacaaaa taataatana atcttacaac gtaattcttt 360  
tctgatgctc ttacacatat atattgcata c 391

<210> 34393  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 34393

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cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat atcaccatat 120  
ccttaaggaa ttttgagct ttggaattgt tttggaata agtgtggggg gtttttgttt 180  
cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240  
acattgtata ttggttaa at gttggacatg ctgaatgaaa tgttgtttct caaaggctat 300  
aaaaaaaaca agaataaaaa aaaattattc gaaaaataaa aaatcgaaaa aagaaaaaga 360  
acagcaataa agttgagtga ataagatctt aaatggcaca agaatgatga aactcttggt 420  
tctactcttc at 432

<210> 34394  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 34394

agcttttcttt tgtaatagcc ccaacaataa gatttgggaag ttgatactct accctgtgta 60

caccacacgt actgatacta agcaataata ttttgttgaa ataggtagct caaaatttaa 120

tagctaatta gtggattcat ttaaaaatag tgtcagaaag attaaggata ttccaaaaat 180

attgcccagg aagaacaact tctgatatct ataagtatta agtagtctca aaacacaaat 240

ggcaggaaaa aaatgaggaa agactagagg ctctctttga caaaagttgc aaagtatttg 300

gtggcatacc ttgagaatag ccgcaatatc tcacaatgta atttagaagc tgagtaagca 360

tacactctaa cacttgtttc cacaaccac 389

<210> 34395

<211> 396

<212> DNA

<213> Glycine max

<400> 34395

tgcccttctg atccgaagag gctgaccctt gcggagcccg tcgagagcga aattgacctc 60

gtcaacgtgc tccatcatct ctccgaactc ctgcgcctcc atcagcgctcg acgtcgccgg 120

aatccctcc gccggcgccc gtttcgccct cttcgactcc cttgctccgc ctgcgccggt 180

gccgtttccg aagtcgccga tctccgaatc gaagaaggac caatgctgcg aggacgagtc 240

ctgtgaggag aacgcgaagc cgcagagagg gtogtcaatc tcctgagata aggaatccct 300

gaatggctcc gaaacgtcgt cgtttagaga ggacgagccc gaatacgttc ccgagagggg 360

tcctttgcgg cggccgtatg tgcggacgat catctt 396

<210> 34396

<211> 341

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34396

tagcttctag tttgtggtca tgtaacacta aggctttgga tttattttcc ctatttaaaa 60

ccaactcagt gtttccaaaa gatgcttttt tatcaaatta tgcacacatc tgagcccat 120

aaggcattcg gaaaaatttt cacagcattc acccttcagg tgtacacata tttttttctt 180







<211> 397  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34402  
  
 gcatttagaa atggttagtca gtagacaaat tgattgagaa agaaaagctt gaaccataac 60  
 tcggtgagag tgtgaactca attattgaga gaacgaactag catagagcaa tgacttttgt 120  
 ttcaatctct gaattttaga atgaaatgca taaatatgga tatgatgaag gccattattg 180  
 ttttgaaagc cacttgacca aaaagcttac ctgtttataa atgataatat catttgcacc 240  
 cttctgtgaa ttgaattgta atggtcaaat tgaaccttaa gctttgaaat tgttatctct 300  
 atttaccttg cttaggattt aattgggtta agacaacttt gccccacatt tgggggagtt 360  
 tgtttgatgg ataatttaaa aggtaagaaa caacacg 397

<210> 34403  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34403  
  
 cgcgcgccca atgagcctcg tattacgtca cactatataa tactcaagct cgtgtcaaca 60  
 aataggacac cttctataaa tctaggattc atgcacgggt aaacctttgt agttgttcta 120  
 cgttaccgtc atagtgattt atttgtgata aatgggtgagc caaccaactt aatttaacca 180  
 tactgtcttg aagttcacct tcctgtggtc tgactcccaa caattcttca cataaatcaa 240  
 cccaatcaag atttgttggga ccaattaatg gtgccccatc aacacgcaga cctaataata 300  
 cagagacatc ttaaagagta atcgtaacatt ctccgcactc catgtgaaat gtatgtgttt 360  
 cgggccttca tctgtcaatc aaggcagtca ttaatgacgc atttattctt aggtatgtca 420  
 tcttcattat ccaataaaaa ctagattgcc gaagtagagg aataatctcc tctagtattt 480  
 cg 482

<210> 34404  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34404

tacaccatga tatcgccata tccttactga attctggagc tttggacttg gcttgggaat 60  
aagcgtgggg gatttagtgt tcttggagca catgttttga tgggcgtgct tcatgataga 120  
ttatgagcca tccttgatgt aactgcgta tgggccaaat gtgggacatg ctaaatatca 180  
tggtgtttat catatgctac tgcttataga gctacagaat cggcgagcat actgatgagc 240  
cgtgaggtgg agtgaataac atcttaagt accacacatg gaggagactg ttgagtctac 300  
tctgtatgat caaacactat ctttacttct ttatattgtc ctatcgttac gtactatgca 360  
ctcatgcac attagctctc tattcgttcg agc 393

<210> 34405  
<211> 428  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 34405

tcgacgcttg gtaagggata tacgtccttg tagatgtctt gntgatgtcg gagtagtcag 60  
agcacatacg tcatttgcca ttggcctttt ttaccatgac aatgttggcc aaccaattcg 120  
aatatctgac ctttctgata aattgggcct tgagtaactt gtcaacctcc tttctgacca 180  
ccttttgttg ctcttctccc atctntcttg gcttctatga tactagttaa gccttggggg 240  
tgatgaccaa ttcattggcat atgatgctag ggtggatacc aagcatgtca aatgggttgc 300  
aagctaagtg cactatctag gtttatgtcc aagttctaac ttgacaagtt cttegatcgg 360  
tttcagacct ttgtgaaaaa tgcacatcca cggatctaca tcgaatacac catcttgata 420  
tatectan 428

<210> 34406  
<211> 397  
<212> DNA  
<213> Glycine max  
<400> 34406

ctttgttctt ttataaaat gagaagtttt gaactcatca tggtatctaa aaaccttggg 60  
gtggatccaa gtgctccgat catccatttg catactcatg ttttggtggc atactcaccg 120  
ttgcttattt ctttaggaat ttcatactaa ctaagaaaac atcaaggcac ccctataaca 180  
ctcgatccag aaaaatggat aatgaagagg gcgtgcagga acagatgaag gccgatctat 240

cggctttaa agatcaaag gcttccatct cggaggtcat gttaaaactc tagaaaacca 300  
tagaggataa agccacggca accgcctcca gtatgggttag ggaagcggag ccggtgctgc 360  
aaccgccttt aaatccgggc cgagacagat acacggg 397

<210> 34407  
<211> 429  
<212> DNA  
<213> Glycine max  
  
<400> 34407

acaaatctgt tttaaatacca agcccataag taatatctaa tcaaacttag ataagataag 60  
ataagataag atctagatga aataatatct agataagata agatataatt ttgtagaata 120  
aattagtctg ccctcttcaa gtccaagccc aattctggat tcaagcccaa gcccaattct 180  
agattcaagc ccaatgcttc attaattctt gaaattagat taaaaacatc aaattagctg 240  
aatggaccca aataataaaa ctgcctaatt aatttgacaa ttaagactaa tcaatactta 300  
aaatgggtgct aaaaggggta agaaatagga gaaaataatg gcacatcaaa accccccata 360  
cttagccttt tgcactcctg ggcaaatga aataaagaac acaatccaag gatataaaag 420  
agagacaag 429

<210> 34408  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34408

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aaacataaat ataaacctaa attataaaat gtactaaaag caaaataata ataaaagtgt 120  
tcaaaagata ggaaaataga agtcctgtca tgggtcctat ggtgggtcct gtgggtgcaga 180  
aggggaaaaa tccatgggtg tgacatcatc ctcatcctca gagagctcca gcacaggcgt 240  
gcctactggt gatgcctgtg gggaagtcaa ctccagcaca ggtgtgggtca ctggtgatgg 300  
ttgtggagtc gtgtcgggag tagcctccac aacgtcctcc tgagtagctg ggtcagtcct 360  
taagatctct ggctctggaa tctctaagtc agcctctgga tcaacan 407

<210> 34409  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34409

taaaagccca attgaacctt ccttcttctg gtatttttgt cactttaagt tatgcagttc 60  
 ggatttaatt atctcactct caaataagat atcttactcc tgtatgatat gttctctctc 120  
 tctctctctc tcacacacac acacacacac acatatatat atacatataa tcttttccga 180  
 tttggtttta ttaaattatg tttaaagcaa taaattcaat tagtatcttt acaattcggt 240  
 gattgatttg gtttttataa tgatgttttg aaagcccata tatatatata tatatatata 300  
 tatatatata tatatatata agccttgtat ttaaaataga aaaattaaga ctaaattaga 360  
 attttgatcc gcctgtagtt tcacatctaa tccccttatt tctaaatcaa gacatgcatn 420  
 ctttt 425

<210> 34410  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34410

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 ttagagttca cctgcacgca tgcattgttt atatatatgt acacaatatt tgtcttactt 120  
 tgcggatgac aataactaac attttgacct tgtaatttgt ctattaaaag aaaaaagagg 180  
 agaattctgt ggaaaacata cacttaattc actttacgtt taatccaact tggactttat 240  
 ttatgttaac tcacacacat aataatgaat attgctgtaa cgtcttctat tgttggaata 300  
 ggtggatttg gtcacaaaag aacctggatt aggaaaaact cctatatagt tcatatgtta 360  
 taggtccact cacttcaata gttgaaatct atgcatgcat taagagacaa ttgcaagtat 420  
 cccatgtaca ataccaaca ttttaattga acatgattca ttgtcagaca aacgctatac 480  
 tgcttg 486

<210> 34411

<211> 143  
 <212> DNA  
 <213> Glycine max

<400> 34411

agctttgaca tgactttctgg gctgacgac accttttgcta acagccacct tgctgctggt 60  
 ggccaatctg atgcccgggtg cagctctgct cctacttata tcaattgcgc attactgcaa 120  
 cttcctttct gctatctacg aat 143

<210> 34412  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34412

agggctggcn ttttggcctt tanngcttgn agagacanta tantttactc aagcttatgg 60  
 taaaatctgg gacttagcca tggtagaagt cttcactttg ccattgcctc cctcgcccaa 120  
 tactatgac aaccgatgag gtgcttcacc ttaggggact tccagctatc acctatggta 180  
 gaagaatttg aagagatcct gggatgccct ctagggggat ggaaacccta cctcttctca 240  
 gggttctatc cctcatagtc caaatctcgg agcaggaatt agaccacaag aagcaagtca 300  
 aaaatagggg ggttgaata ccgagaaaat atttggaggc aaaagcaaga atcttggcag 360  
 gtaaaggcga gtgggccccg ttcattgata ttctcgact gttgattttc ggaggagtcc 420  
 tctttccgaa tgtggatggg ttggtggacc tggcagtgat cgacactttt ctgcctatc 480  
 an 482

<210> 34413  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34413

gcgtgtttgt gactcattga cacccttga tgcatacta cctgggcaat tcagctcgga 60  
 cccgggatcc tctttattta cctgcaagca tgcaagcttt ctagctcttc attggtgtat 120  
 ttogatctcc ttttgctgct ctaaattgtg ggaacgtgct cacatatgtg gggcaatcta 180

ggcttgtatc cttgcttgac taacctgaag tgccggtttg tatgacatgg tcctatgcct 240  
 atcatgcatt ttgaagtact gtgtcatgcc acaattgccg cgttctcttg ctattgatgc 300  
 ctaaacgcgc gccaccact tgctggtgaa atgcctcaat ggcattatca cgtgattttt 360  
 gtaaggaaac aacccatgcc gctgattggt ttgcacatac ttttgggaca tgcattcctt 420  
 ttcgacagag ctacaataat ctgccctcat gtgtcttacg tctcgatacc acn 473

<210> 34414  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 34414

gcctctcgac atattatgcg cccgaatcgg acatccgtgt tatatgttat gaccattcga 60  
 atttctcgag agcttacgat gttcaattcc gagcgtatcg acatattata tgcctgaatc 120  
 ggacctccgt gtgaaaagtt atgaccattc gaatttcccg agagcttacg ttgtgcattt 180  
 tcgagcgtct ctacatgtga tgccgcttaa tcgaacatcc gtgtgaaaag ctatgaccat 240  
 ttgaatttct ccagagcttc cgttgtccaa tttcgagcct atcgatatgt tatgcgcccg 300  
 aattggacct tcgtgtgaaa agtcatgacc atttgaattt cactagagct tacgatgttt 360  
 aatttcgagc gcattccacat attatgcgcc tgaat 395

<210> 34415  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 34415

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 acctagggaa ttaaaaaaaaa acttaatggc tgagtgtaac tgatattgtg gcaacccaaa 120  
 gtcaccccca acagccaaca agtcagtcac catttggtct cccaaaaggc tgatgcctag 180  
 gttgccaatt gggcccttat tacaacttga actaaaccta tctaaagccc ttttagttga 240  
 ttaaccctaaa acatattttt ggtcagccaa ctttacaagg attgcgccat tatttagaca 300  
 aactaaacac tctataattg agacaaagtg gtgtcattta gttctcctcc attagggcca 360  
 tgatacaact cacaaccttg 380



<210> 34416  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34416  
  
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 tcaagacgct cgaaattgaa caacggaagc tctcgagaaa tgtgaatggc cataacattc 120  
 cacacgaatg ttcgattggg ggacataact catgtagacg ctcgaaattg aacaacgtaa 180  
 gttctcgaga aattcgaata gtcataacat ttcactcgga tgttcgattc gtgggcatat 240  
 tatatggaga cgctcgtaat tgaacaacgt gatgtgaatt tgagtatgag cggatcattt 300  
 gataccggct acggagggtt ggatgacgcc acttccagtg aaggaagata agtcatggta 360  
 gacgccactt ccaatgaaag aagataagtc aaggtagacg ctcactttca gagaaagaag 420  
 atn 423

<210> 34417  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34417  
  
 ttgtgtcact tacttttttg ttagggcgtc tcaatttcat gttagctctt agattttttt 60  
 tttttattaa tccctggttg tattcatcat ttcattaata tagaaatgat gagttgattt 120  
 cataaaaaaa aagtttgagt tggacttttt tgctaaacaa aggcaaacga gtaaaatatt 180  
 aaattagtcc ctcatTTTTTA gaggcactgt caatttgatc cctgagattt aaaaaatatt 240  
 aaaatgatcc tcgattttac atttcgtttg ccacgttagc ccctgtcatt agtagtctcc 300  
 taagaccgtt agtaaagtgt tgatatgaca cgctaaatgt cacctagaca cacacgtgaa 360  
 atttccacat catgtttttt tacttgccac gaaggg 396

<210> 34418  
 <211> 332  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34418

aatgtgcccc gagttgattc acaatgcata tgaagaacca catggtcaca tgactaccat 60  
 cctatccatg gttttgggtc tttctaactt tatgtgggtt atcacttttag gttcaaatat 120  
 atttttattt ttaatacata tttaattcgc ctattttattc ctaacaaatt ctttattttc 180  
 tatcgaatgt ttaataaaac gattatttta tttattatca ttcataatatt attcccatct 240  
 tcgataaacg agtgatctta tgattatcct atgatataac acatactttt atgttagttt 300  
 gggctatcta taaataataa ataatacttt ta 332

<210> 34419  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 34419

aattctcagt attatgaaca tgtgaagcag taccctttat ttttaatctt gattaagtct 60  
 cttccataaa taaggattgt acccattgtc tacacgaaaa taaagactat ctatcttcca 120  
 aaaatgtaaa tgcttttact ttatagtgt aaaaaggaac aacaaaaaag aaacacaccc 180  
 tcactttttc cacctatcct acatcttatg ttatctatct tactaatatt tgatagacaa 240  
 ctgtgattga agtttttttc tttttgtttc ttgctctttt tcttgtgatg attgaggaag 300  
 tacccttttt ctggaaaagt aagttctaca ttgattaatt gtattattcc catatttttt 360  
 tttagctgaa tgaacagaca tatttttgacc catttag 397

<210> 34420  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 34420

ctttcaagcc aatttctatt caatgacaaa ttgtttatat tatggagact ggtgcatcag 60  
 tccagacacc gcgggtcact cttcatggga catgtttaca actgttcac aaaaaactaa 120  
 agctcccttg aataactgaa ttgtaacatc agttatcacc tttatcttca cagactacaa 180  
 cagaggctaa accacacgaa tcttgtgact gtacatcaca agcacaacca ttggcatgag 240  
 tccaatctg tcaatattac attacaccat cagaagaata gcaccactca atatccatca 300  
 gaccagtat ttcactctt 319

<210> 34421  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34421

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 tgctaggtta taaatagaaa catgtgtaac tcttgtcata actttgagga atgagaaact 120  
 tgtgtgacac acttcaaagt tcaacttctc tccctaattc ccttcaattc ccatgcccc 180  
 ctctctctct ctttctcttc ctccattgaa gcttctctc taagcttctt atccaaggca 240  
 ctctcttggt ggtgaagctt ctgcttccat ggtttattct ttagtgatg acgcctctc 300  
 taaccttttc tcctttatct tctgctgcaa caccgtggct aanaaccacc attgaaggac 360  
 cttattgaag ctcatagatc tagcctccat agaagcttct ag 402

<210> 34422  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 34422

ggacatgagg aagtgttgaa gggtgaaact tcctgctttt attgttgacc acagagtgg 60  
 acctggagat atgtcgcggt ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120  
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggccag tgagaacctg 180  
 tgatgtacct aagcaggcga gtcctggca gtcaacagat aaaaggaaca aagaccacaa 240  
 agcatggagg cttgtggcgg ctggccagct gtgaactctg attgatatgt gggttatggc 300  
 ctctggtaat cgattaccaa gggtgggtaa tcgattacaa ggcttaaaaa tgaagacagg 360  
 aggctaacat ggtctctggt aatcgattac caagggggtg aatcgattac cacgc 415

<210> 34423  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 34423



cgagccaatc taaacctcgc atatgaacta tcag

394

<210> 34426  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 34426

tatgcgcata tttcettaca aacgttctct tgcacaatac attctattaa ccaaaaaaat 60  
gcacccatat acaatcaagg caggttcggt acctagatta ttacacgta cttccaaggt 120  
gcatttggtta cttacatcac acacctcctt ggctaaattc acatacatgc atactcaaag 180  
cattttgggg taccaaaaat tgcacatgtg cacatcttgg tatttctaata acctatacat 240  
acacaaactt catgatgaat cttgactatc tacacaataa ggtgctacat tttatgctct 300  
tttcaagttt ttgctaccta aagccgcatg caaattcaag tatattttcc tttgctgact 360  
aaaattgtat tcaaattaaa aggtatacat tttttggtaa tgtatcttct ttacataaca 420  
tgcaacatat ctatgtat 438

<210> 34427  
<211> 191  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34427

ttctttgtat gangaagtgt cgaaagggtga aacttgctgc ttttatctgt gaccacaaac 60  
tggtacctgg agatatgtcg cggggggtcac gacaccttgg ggacgtcaga tgggggtgcta 120  
ttgcccacaa ccaagcttga ccaattccga tccaacccga gcatattcgg tcaactgagaa 180  
cctgtgatgt a 191

<210> 34428  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 34428

tgctaaccba tggaagctcc taatatctcc cacacttttt ggggtgggcc attcttggat 60

ggccttgatt ttctcagggt ccacttgga cccatttcta ccaactacaa aacctaagaa 120  
aactatatta tctacacaaa aggtacactt ctctatattt gcatagaggg tgttcttct 180  
aaggactgaa agaacttgtc tgagatgtcc taagtgatca tctacgctcc tactatacac 240  
taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300  
cataagcctc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360  
atacaaacca aacttgggtct tgaaagcagt ttccactca tcaccctttt tcatcctgat 420  
ttggtgat 428

<210> 34429  
<211> 76  
<212> DNA  
<213> Glycine max

<400> 34429  
acttttttta aaaaaattta ttaacttttg atttttaaac gaacggcatt tttgtaaatt 60  
caatgaattg cttggt 76

<210> 34430  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34430

tgcacttgag ganannncna gacgacatct nancgctagt ttttatttta cttctaacct 60  
ccattgagga cagagattca cacttatgcc tccccactcc tgaaagactc actcttttgt 120  
ccactcacia caccagattc tctctttcta accctaggct aactctacc ttaatctcta 180  
actgttccca taggcaatcc cagcatataa acatcatcac ataaccctaa aacagaatgg 240  
gtctgcctaa ctcatcccaa catggcaatt ccaacaagct tacaacaaga tccttcacia 300  
ataatcatca gacagcataa aactacacia caccacccat catatctccc ataacacccat 360  
accacacaaa cttaacagag aaagaagtcc acctaaacct gaatcttcca agccccactc 420  
gacagcacgc actt 434

<210> 34431  
<211> 377

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34431

atcttctact tatgtggcag ggcgggcttc cttcactttc ttgtctccaa cgcgagcttt 60  
 gaccactgct ttctcttccc gcgatgcttc tgttcatatc cccctgagt gggcttatag 120  
 cctaaaccat accttccacg atttcctttg gcatttatca ggctagctat gccgccgttg 180  
 tctttcgcta aaccattttc gggttcataa ccgttcccca acataactcg ggccatcatt 240  
 actgctgcat cggacaaaca agtcgtccct ttatacttgt cgaagtccgg cactttgaac 300  
 ttccgnggaa taacaacatc acgtactaag catagatccg tcatgtctgc gaacggatag 360  
 tctccaaatc cttccac 377

<210> 34432  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 34432  
 tttatcaact tgactcttta tgtaggtcaa gaggcctttt atttaaaaag aaaaataaat 60  
 cgtatattta aatacatcat gacaaatcta atactccctg ctgtcctata tatagaaaca 120  
 agttactcgt tcgtcaagac caataaaaat agtttagtta gttagtttta attaataatg 180  
 tcaaatttaa attttattca aaacataccc ttttaaggta ttttgtttga gaagtagttg 240  
 catttaatga catgagaaac agtgtaattt atatttttaa tagaccaata aatgcatgag 300  
 aatgagtag ttacctcatt aatggatttc acaacatgaa gggtaaaaaa gaaaactaac 360  
 aattaatata tcttacagtg ggtctatggt tcttataatg aggacaaaca aagaataccc 420  
 tcttgtttct ta 432

<210> 34433  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 34433  
 agcttatttg tttaaaaaat taaagatctt tttgttatct ttccagcgac tactcacag 60

ttccatttgg agttctttag tgtcttctac gcttgcacaa ggcagatagg tcaagtaagc 120  
 acaaaatcta aaatttaact acaattctca attaagctca atcatttgcc ttagaccaaa 180  
 accgagttaa tgtgagaaaa taacgggtcaa agagatttca attgacctaa gaagaataga 240  
 caaatattaa actacaaata ctcaatcaaa ttccccaca ctttatcatt tgaactcatg 300  
 ggagaaacta acagacagat taagacaaaag atatcaaact tagaaaataa ccacactaaa 360  
 agaacgtatg aac 373

<210> 34434  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 34434

ttcttgtttc ttataagac actcaacatg tcatcaggat gcacactgaa cacgctcctc 60  
 aatctgttat attgattgtg aacgaatgct tcaaccgtaa ctcggtgacg gtgtgatctt 120  
 aactgtgaga gaaacgacta caactagggt atgaattttg catgattctc tgaattatgg 180  
 aatgaatgca tgaatctgac gatcatgaac gtcatgcttg attgatatag ccacttatgc 240  
 aaaacactga ccctgtgcat gaatgattta tcccttgac ccagattgag tctaattaat 300  
 gtctgatcga tcgaaccttg agcctogeta gctatctcat gctacct 347

<210> 34435  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 34435

ttgagccaaa atcctgactc accatagacc ttgactcatt gtgttaatgt caatccttac 60  
 cctcggaagc gaaaaggaaa gaaggaagat ttccaatcca agagaatgca tataaaacga 120  
 atgagcagaa ggaaaattcc ccaatcaaag agtggggagaa agcacaaaga taacaaagaa 180  
 aattcccaat ctaagaatgg gagaaagtaa aaaaggaaga agaagaagga aagaaagctc 240  
 ctgatcacgg attgaaggaa aacagaagaa atgtgcacag aggtcttttg accggacaat 300  
 atctgaacaa tacagaattg tcaccaaatg aacaaaaaga aggaaggga accacaacct 360  
 aatgtgtgtc tctcccttta attgccaacc agaatcttgt gtgctagcga c 411



<210> 34436  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 34436

agcttatgaa tagaaagaag aaaatcatgc aatagattta tcatatttca ttttcaaact 60  
 atgtggaaca atatttagtac atccaaatat tatagattag aatttttcac tatatataga 120  
 ctaagaataa aaatagtttt ctacatttct actattcttt tcacaagtct ctattttcta 180  
 aactaatgta ttctttcttc aagaaacctc tttagcctca ctttaaagaa aaaattgatg 240  
 ttattaggag atagacaata aatactccat gataactgaa agtattctct aaaactgcac 300  
 aaaagggtgca agaactaata atgaaactta gaaatgaaca aacgaataat ggttcttaac 360  
 tcttttgata tgtagcaaga tcattatc 388

<210> 34437  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 34437

ttctcccaag tactaaatga catttcaagc tagtattaac tcactttaac ctccatttac 60  
 cacagaattc agacttagcc ttccaactct caaagcctca ctcttttttc cactcacaac 120  
 accacattct cactttctaa ccctagggtta actctaccct tcattctctaa cagttttccat 180  
 aggcaatttc agcatataaa catcatcaca aaaccctaaa acagaatggg tatgtctaac 240  
 tcatcccaac atggcaattt caacaagctt tcaacaagtt ctttcacaaa taatcatcac 300  
 acagcataaa actaacaaaa ccacccatca tatctcccaa aaccccatc ccacgaaatt 360  
 taagagagaa agaagtccac ccaaacctga attttcgaag tcccactcgt agccacgcac 420  
 ttcacgaccc c 431

<210> 34438  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34438

agcttgtgtg ttagagagga tttgttcgcc ttgtggacca aagagctcca aagggttctt 60  
 cttgtctaataaat gaatgtacta ngaatgctga tatagtttgc attggtgttt ctttttatca 120  
 taacagttat tgttttggtg tttgtgtact tttttccaca gtaaaaggat ttatattaat 180  
 attaagtga ggttatgctt gtcacaagaa gtgccacacc caacctcata aatgcatcat 240  
 ggagttcctt ccaaaacact actactcctt tacatatata ttgattctac aacattataa 300  
 ggaacagatg gtatcaacaa tattccatag taccctacca tgccttctag tgttccttg 360  
 gtccttattt c 371

<210> 34439  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 34439  
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 atctctatta aggagatttc tatttctcat gcgactgaag ttagtgcgcc agtcgcttcg 120  
 gtcagtgtg tgcaggctcc tctgtctact attgttgac ccttgttgag cgtcggtgtg 180  
 gcaaccataa gtactcccgat gatgtccctt cctccttctt cagcttcata agttcccccc 240  
 ttgaccgtgt tgggtgcagc gttgtcttcc acttgtcttt tcaccaagt gtttctttgg 300  
 atcacatctt cacttcttgt gatgttgatt ttctatgggg tatgggttac aagcctgacc 360  
 agaagaccct cgggtggcttt gtgtcaacct atgataaaaa tcttattcgg tcagctgggg 420  
 tct 423

<210> 34440  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34440

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 ggtattgtaa gtgacatcct tggccagagt aggtttgatt gggatggcac taagcacatg 120  
 atcacaattg agaatgaaaa tgcttgaaat gaatattgca ctataagtat tctttaatat 180

attgctatatt gttattcaaaa gtagattgga tttgactttt tcttttttttc cagtggcata 240  
aatagagtaa accgttttga ttcaagggtgc ttcaaaaacta ggatgataca gtggatttgt 300  
gcgctaaaga tagagccatt ggtcatggag ttgaaactgc tgatgtagct ccatgtggag 360  
cttgtatgcc taggatcttc ttcacatg gagtaacn 397

<210> 34441  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 34441

tatcaaggag tacgactaga tctctggtgt gaatgctgac aatgtgggat cgaaccagct 60  
ccaaaacatt cacaaggggtc tctgcaatga ctctgtcatc ctcatgggga aggaaattct 120  
tcttttaggt gcatgataaa aagggtatgga gttccaagtg ggaaatacaa gttttatagg 180  
tgtgcctagc agtggataaa caaccattgt atcttaatag cagctgctcg aggcatatga 240  
taggagacaa atcaaatttc ttgcctctaa aagctaaaga aggaggattt gtaacctttg 300  
gtgacaacaa caaagggaga attctcagat acctctttat gatgatgatg atgtaagaag 360  
tcctaaagaa tctctccta caagtgaataa ggtagtgaac aataaccctt ttgaagaaca 420  
cccact 426

<210> 34442  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 34442

catgtatggc ttcctcgagc ggtgacatta tcttcaaaca tgagtgaacg aatcataacg 60  
atgcatgtac ttacgagctt acttgaatca gtaagtaata tttatctagt acattcctaaa 120  
aatatatgca ttatacgtag ctaattatat ttgtggactt caaggcacat tggtagcttg 180  
ttggtagtcc acgagaccat aattgtggct cggtttgctc tctacctaag aagcctaata 240  
ttaacatcca agttgccact aacacgctat ggatcaaata ataattcatt tactatataa 300  
caattatagg caacgccaac ataattctaa tcttatatat cgttatgcgc tttttaacca 360  
tgcac 365

<210> 34443  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34443  
  
 tacactcaga ctntgatcat gttcgtgac aagtactttc tgtggatcag gttccatcca 60  
 tggattctct catcactagg cttctccgtg tgcctcactt atcgaaggat gaaaatccta 120  
 ctgatagtgt ggagacgtca gcaatggttg catcacgtgg tagaggaggc ggctcgcaaca 180  
 gcagaggagg ccgcaatgga aggggtggac gtcctcattg cacctactgc aagaggatgg 240  
 gtcacaccca agagaattgt tattcgttgc atgggtttcc tgacaagggt gcacagggtt 300  
 ctagatcaga gaaagtagag tctaagttct ctgatgagga gtatcaggag tatntgaagc 360  
 tcaaattccga gagaccagc aaccaagctc aatcctcatc tgtaccatgt tnttcaacag 420  
 cttgtatctc tc 432

<210> 34444  
 <211> 236  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34444  
  
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 tgagaagaac ctcatatcta tgaatttttg gtctacaatg gaacgagagg aaaaaagatt 120  
 tgtgtaccgt atacgtgtt cctctgatga gaataataac ccacaaggaa tggacggagn 180  
 gaattgagct tcctgtgacc cacaatgccg ctgactccga ctcgaagttc ctttgc 236

<210> 34445  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34445  
  
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 aaacaaatca aacgtaacaa gacaattata gttgctgttt gaataacctca cccactcaag 120

tgtatcacac aatgatggct tttctctaata gaaacactct ttcctttttac cactctaatt 180  
 ccccttgagt tcttaggcaa ttcaagagat tatggccaca acaaagaaca attcaccaat 240  
 atgtgtaagg taaggctaga gagacaagga aaagggttaac caagaaaagg ctaacaatgt 300  
 ttttaggcac aaatgaagga aataaaattc agaatttagg aattcaagta acaatcctcc 360  
 atgcaaccaa tatattacct taaagagatt ttttttaaag ttcttcaagc attgaaccat 420  
 tcagcccaat ttttttttt 439

<210> 34446  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<400> 34446

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 tggaaagctc ctaatgttcc atacaaaatc taatccacta caatatgaca taatcaatta 120  
 tttcaaggca caatatacaca atcaatatga caaataactgc agaaaactct taccaattca 180  
 gggcagatgt gcccttcac tccacaagct tccttaaccc atgatactcg aacagtcc 238

<210> 34447  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34447

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 tttcaaaaag aagtacccat aaacaatatt cgaattaggc aactgcatt atagaagtta 120  
 ttttagaagc tacacacaac aattgtaatc atgtataatg tgaaatcccc aatttcaaac 180  
 accatcacia aattataaat aaatttgcca ggtggaaaag atgaccacgc caaaagttta 240  
 accaattttt catccatatt aactatgaag atgtccacat cagttagaaa tatagccaaa 300  
 atactcctta tacggcttgg acaatcatct aacctcaagc tagctatgcg gtcattgtat 360  
 gcctagccca tttttaattt taactaaaca gaaatttttc gtccatttat accttgtaaa 420  
 acaatatcaa aaca 434

<210> 34448  
 <211> 569  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34448  
  
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 tatannnann nnnnnnaaga gatgtttgat gacgtcgatg gacactccaa ggtgaatccg 120  
 agctcgggtgc cggcgatac agtagagctg acctgcatgc atgcattctt tatacctcga 180  
 tacaccattc cattaatctc aactacataa gatgccaaga cctattgaat tgcggaacca 240  
 atgtcacaga ggcgcacatc tatgacagct tcctaaatgg caagccaaac attccatagc 300  
 atgatagagg aaccatcgaa ttgcatgac taagtgggtgc ataataaaaa cctcacacga 360  
 cacacaacga acataggata tacggtggag ggtgtacgga tcagaaacca tatattaagc 420  
 tcgtgaagct tcgccgtgct acagatctat ggacatacaa acggataaga gcgctcaaaa 480  
 tagagccatt gatcacgaat ctgaaactga taatgtagcg tcattgagca gctccggagg 540  
 cattggatct tcatcatcaa tgggaagtcn 569

<210> 34449  
 <211> 526  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34449  
  
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 ccggannatg aactcgtgac gcaggcccta ananaccag cgncacggac nccccagaac 120  
 acngngaaga gggtatcccc aacacacctg acaaccggg agcaagcaat aacatgtatg 180  
 cggcacccaa ctgagaatga agacgacaga acaccacaa ttcaaaggct acaccgacgg 240  
 tggcaaccgc gagtaggaac aaaaccagca tgcaagtgc cctagacgaa cggccataga 300  
 atacggcaag ccacgcaggc acatggctca caccatttga ggccacttat ggtaaactc 360  
 ctgcgaaaag tgggaagaac tcaatgctac ctcatgtgta acaataagaa aggaggagc 420  
 gcaccaaata ggccgagatg agactaatcg aaggacaaaa tccaataaag cggcaaaatc 480  
 aagagatcct aaacagaaac aaaataaaac agcacagcga acaccg 526

<210> 34450  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34450

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 agctgctctc acatcaattt gccgccactc aacgtcaaaa tgagcaccta ctgccaagat 180  
 tatacgacta gaatctttct tacatactgc acaaaaagtc tctttgtcat ctattccttg 240  
 cttgcgagtc aatcccttag caacaactct tgccttgat ctctaatagt tgcctaata 300  
 atccttttct ggcttaaaga cccacttaca 330

<210> 34451  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34451

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 gaaccaagaa gcacaagaaa gcgagcagcc ggtggaagga aaattcggtt ctgaagcttt 180  
 tatcgatccg tttcaatcca tttttcttcc atcttcttcc ctttcacccc acctttattt 240  
 ttgtaagtct ctcattgacaa caaaagacta agattaccta ttgttggtag ctctgtaaat 300  
 caaactctct ttgatgtaat gattctaaac tatcttttaa tataatgctg ttattattat 360  
 tcatccctat gcttatttat atacttatgg ttgatcatt catctttatg tattgggttaa 420  
 agatatan 428

<210> 34452  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 34452

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acggaggagc tagagtggat gatgaacgga tgtcctccat tctagctctt tttctcgatt 120  
ccatttgcaa ctaaaaagaa ctaaaaactc cttacaccaa aattgctcac gtttaacaac 180  
agaaataaag gctgaaacta aactacgtg cttancgaga tatagctcgc tcagcgcacc 240  
ctcaaagaca taacatatcg gcttacctgg agccaagctc gctctaccta atagtggctc 300  
cgacaaaatg cgctgagctc acatgaactc cgcttagcac gaggc 345

<210> 34453

<211> 418

<212> DNA

<213> Glycine max

<400> 34453

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ctcaggattg agacccgaga tgaagcaact aaggagaaac aacagagcga gaccaacgat 120  
acagttggcc agccgttcaa actcgatcaa atagtcattg accgtgctgt gttgatgaag 180  
cttgaagagt gtgccatgcg aattgtcata aaatgatgga gcgaaacgcg actctaaggc 240  
ctgaagcatt acggggccatg tcgtgaggaa gccgttgccg gtcatccact agtatcagct 300  
aagcgttggg tcctccatat agaacaagac gatggtgagg cgttcgggtt caggcacccc 360  
ttgatagtcc aagaactgca atattttgaa taccagcct aacaagtcct agccatca 418

<210> 34454

<211> 393

<212> DNA

<213> Glycine max

<400> 34454

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gcctcaaaag aggtctgaac tttgaagtgt aattctcaaa tgatcaaagt tgaaaaaatt 120  
cacacacatg gcctctatct atagcctaag tgtcacacaa aattggaggg aaatttgaat 180  
ttctattcaa atttcacttg aatttgaaat tgaatttgtg gagccaaatt ttggagccaa 240  
aatttcacta attatgatta gtgaatctta gttatggttc agcccactaa tccaagatca 300



agtccaagat tgtccactaa gtgtgctttg gtgtcatgag gcatgtaaag catgaaggac 360  
atgcacaaag tgtgactata tgatgtggca atg 393

<210> 34455  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 34455  
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ttacaggtat tggtaatcga ttacaggccc aataagcctt ctggtaatcg attacaggat 120  
gttgtaatcg attacaggct gcctgttcat gtgtaatcga ttacactgga tggtaatcga 180  
ttaccagagc ctatcctagg ctagtcttcta agagaatata tatatttatg ctcaaataca 240  
tcctatatga ctaattttca ctactaatac actaaattca atcattcaat tactatatac 300  
acaagaaatc ataaattcta tcataaagac aagaattcaa acaagatcaa acaaaataat 360  
ctacaatcaa aaggtaaaaa gttaaataac caatcaatca accaatcaat caaccaatca 420  
attcctattt tt 432

<210> 34456  
<211> 345  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 34456

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tttctagat taaacctgtt tttgaagtaa aattgggcca ttaatttctg gagatttctc 120  
caaggaggga ttaaaccact gaacttatte aagttaaacc agctaaattg atatagtgat 180  
tttttgtaga gaccatatgc aatttgagct tacaagccag tttagccagg gagagaactc 240  
ccaacaaaat ctagctagct ataaggggtgt tggagaagtg gtgaaaatat tcttttttta 300  
atgaataatt ataatttct aaatcttgat ttanattgaa atata 345

<210> 34457  
<211> 430  
<212> DNA  
<213> Glycine max



gaagaatatt caggtatccc tgataatagt tccaacattg agaattagaa ttgttgatga 240  
aacaacattg agtcttgcaa tgaagagaaa ttcaagaaat aaattcatat aagtgaagtt 300  
gattcatggt agttgtgaga gtttttgcgt tttgaatttt taatctttta taagtagagt 360  
ctttgctggt acagactttt ctcttctttt ttctgttttt tagttagcta ttgatatacc 420  
aataaagtct t 431

<210> 34460  
<211> 337  
<212> DNA  
<213> Glycine max  
<400> 34460

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aagtagatcc agaaaataat tacattttatt attattttga ttaacttctg aatatgggtg 120  
aaatcttatg tgtgtctgac atattaaaca agttaacgtc taattttatt gattagaata 180  
tgaatctgtc taaccaaatt aagatgttta ataagtaagt ttatttaagt attttatact 240  
tcatagcttg taaggcatta cttatatatc gcatataggt tcgcaactct ctttttatac 300  
ttcttatcat tactatttta atacaccttc ctcttat 337

<210> 34461  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34461

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ggatgctaac cgatagaacg acatcaatgg aagaccgtgg atgatgttcg attattatct 120  
natggttcat ccatggactt caaaatttgt ggtgacagaa gcaacaatag accaaacctt 180  
ggcttggatc cgttttccaa gtctttggat ggtctatcat gatgagactg tattactgac 240  
cttggcatca actattgcaa caccatcaa ggttgatcta aacatcttga atatgcatag 300  
gggaaagttc gtgcgattat gtgcataaat taatctcaat gtccttgtcg tgggagattt 360  
tgcataatg gaaatcggtta taatatagaa tatgacgcgc ttcattttct 410

<210> 34462  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 34462

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 ccttctctct ctagagtctc tcacatgcag aagctccttg agaaaatggc taaaatccca 120  
 gaacttgaac ctctctttgt agaatctctc acatgcagaa gctccttgag aaaatggcta 180  
 aaatcccaga acttggacct ctctctctct agaatctctc aaaaaatata taagctcaag 240  
 gaaaagccca cactcctctc aaaatctgat tcaggcttaa atagggcttt gttgtgttga 300  
 cgcttatgaa ctctgaacgt tatcgccatt atggatttgg ttaca 345

<210> 34463  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34463

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 ggcacttctc tctctttcga atttgtttag aaaaattggt tccgtgaaga aaatccaagc 120  
 cgaggtgctt ccgtaacgtt tccgtaacgt ttccgtgagt gatttcgcga aggttttcga 180  
 ccgttcttca accttcttca ttcgttcttc atcgttcttc agtcttcaac gggtaagtac 240  
 ctgaaccaa gcttttcgat tcattctatg taccgtggt ggtccacatt tggtttcatg 300  
 tatttttatt ctggtttcat ttacttttta taccctcttt tgacgtgctt aagccattnt 360  
 atttaagtca tttctcgctt aacctaaaaa taaaataaat ttccaccgat cgtttgaatt 420  
 gtattatccg ttaact 436

<210> 34464  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34464

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 ttaagtggac ttgcatgttt gcttggttgg tttgcttttt aattccagtc acaattagcg 180  
 gctctttaat cttgaatatc ttatattgaa tgaatagctt gctttgtcaa atcacagata 240  
 aaataaaggg taaattttctg gattggcctc gacgcttnca cataaatattt ggaataactc 300  
 gaggacttct gtatcttcat caagattctc gattaacgat tatccataga gatctcaaag 360  
 caagtaacgt tttacttgat g 381

<210> 34465  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 34465  
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 agtgacccaa aacactttaa tcgattactt tgaggatcta atcgattaca ttattcttga 180  
 gaggtttcca agttttggga agaagacttt aatcgattga aatgataata taattgatta 240  
 cattgtagat ttaattgatt acaagcagat attacttttt tctctctata taccatctt 300  
 gtgttctcac ttctatgcac aagttcatta agtgccaaaa tgcattgagtt gatataagcg 360  
 ataagcgacg tgtgatactt tc 382

<210> 34466  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34466

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 acagacaatt agtatgaaac tgctgaagta atcaatttat gataatacat atggcattag 180  
 acattcagca aagttcacga atcataaaat tcccaccaga ggaaagtgca ctttctgagc 240  
 cacagctaaa gctgctcgt ctgactaac acatctaagt atgatctcac gaacctcaga 300

aatgacaccc taaacatacg aacncaanac agatattaaa acgtgga

347

<210> 34467  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 34467

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gtccacatga cgtaacagaa tttgcagaat gaaacatgga accaccagca acatcctttt 120  
ctatgtacaa ttctagaact gacatttggt gttgttggtg aaaactttcg atcatagttt 180  
caacatcttc gtcatcacia atttgcaagg cgacatattt tcctaaaact aaaaatctac 240  
aacttatagt agaaatgatt tcattatttt ctaactttcc cttatctcca attttttttc 300  
aaagcattga aactaattcc gcatttaatc tgaattacct ttttactgcc ttcaaattatt 360  
acaccatcat tgtcttcata tactcttccg ttgaaataca acactgtaat aattgaattc 420  
atgatataac tacatc 436

<210> 34468  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34468

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aagtcagcca ccatttgggt tcccaaaagg ctgatgcta cgttgccaat tgggccctta 180  
ttacaacttg aactaaacct aactaaagcc attttaattg attaacccaa aacatatttt 240  
tggtcagcca actttacaag gattgggcca ttattttatac aaactaaaca ctctaaaatt 300  
gaaacaaagt ggtgtcattt agtccttctt catttgngcc atgatacaac tcacaacctt 360  
ggacttt 367

<210> 34469  
<211> 436  
<212> DNA

<213> Glycine max  
 <400> 34469

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gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tccttatcat 120
aagttgaata gttaagggtta ggaccactta actttttcact aaaataagca attggatggc 180
cttcttgcac caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240
atttttgaaa gtttggcaac gcaagtatgg gggcattagt tagcttttgc ttaagaacat 300
tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac atttttcttg agcacttcat 360
tgagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa cttgctaagc 420
catgacaact cctcac 436

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<210> 34470  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34470

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cgcgaaattt gttccggcca tactcttcc tgcgagccct cttgggtctct tgttcaaggg 180
ctcttgcggt aattgcattc tcttcccgta acccggaac ttgcatattc aataaggaat 240
tttgattggc cttcattgta caatctatct ctttcaagag agatttcttc ttctcttctt 300
cttacttctg acnagggatt aagagaccga gagtctcttg ctgtacagga ttcttgaca 359

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<210> 34471  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <400> 34471

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tcaacgggta ccaatcccca ttgaagacgc gtgggggagg tttggattgg gctccaccta 120
ttttcttcga tcagctagga aaagctggaa aaggtcttca tggggctacc catttttgtc 180

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<210> 34474  
 <211> 301  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34474  
  
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 cccacaaaga aatccccctt tacatcactt actggtgtca tttgctcca caacaaaggt 180  
 tcggatcatc aacgtacaac cacacggaca aaactcaaag atgacctatt ctaaacacat 240  
 caacaagcgt agatgacgat aattcaacga actatgtcat aatataatcc actcataatc 300  
 a 301

<210> 34475  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34475  
  
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 tcttttagaga agggaaccaa agtgccgatc tcttggcaaa ttatggtctt catgcaagtg 120  
 atcctatattg gtgggatcat ctctccttt tattttctta ggcttttatt tgtaataaaa 180  
 gggtttttttt tttaccagaa ttaggtctt gttgagtcta tttgcatggg ttttggttat 240  
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 atgttgtgat gttgtgcact tcaataagtt tataaaaaaa tcattttaca ttaagatgag 360  
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 aat 423

<210> 34476  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34476

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acctggaaca agttcgggta aacaggacaa gctgttttat ggctcattca gagtgataga 180  
acgcattggg gcggcggctt atcggctcca gttaccagac ggtgctaaga tacattcagt 240  
cttcattgc tctctgctta agccattcaa gggttcacca acacaatctg aaattgcac 300  
cttaccagca caattcatta atggacaacc tatgatttct cctctcgcta tcctcaatga 360  
tcataagggt ccaggatcaa caccagactc ctgngaagtt ctcgttcaat ggcaaggat 420  
gtcaccagat a 431

<210> 34477  
<211> 359  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34477

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tgctagctgt ggacgcttgg gatgggattg aaatgataaa ttatgggtac gctatcggca 180  
atggatcagc ctctccacca cttctctca atttgtaata cataatcang aacacgcatt 240  
tacgattgga gtattggacc tcttttttca cccgcccaa tgaaaacgtg gcttgggtga 300  
cttgctcttt ttttaatgga caaaactacg cgctttgttc tgattttcta tattccgct 359

<210> 34478  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34478

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aaaagcttac taaggcacct gttctagctc ttctgactt ttctaaaact tttgagctag 180  
aatttgatgc ctctagagtg ggagttggag ctgtattgtt acaagggtgg caccctattg 240

cttatttttag cgaaaaactt catagtgccca cccttaacta cccacctat gataaagaac 300  
 tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aaggaatttg 360  
 tcattcatag tgatcatcaa tcaactaaagt acattagagg gcaaagcaag ttaaacaaga 420  
 ggcatgcaaa atg 433

<210> 34479  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34479

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 aacagccttt agaaatttga atttaaattt taaagtctgt aatcgattac agaattgtatg 120  
 taatcgatta ccagagttaa aattcaaatt tcaaattgtga agagtcacaa ctctgcagaa 180  
 aacaattgtg taattgatta caccattttg gtagtcgatt accattgaag aattttttta 240  
 aataactccc aatagtcaca tcttttcaaa tgattttgaa tggccatcaa aggcctatat 300  
 atacgtgact tgcgacatga attttctgag agttcttctg aactganatg tcttatcctc 360  
 tacaaaagat tctctgtcta acacttgata ttc 393

<210> 34480  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <400> 34480

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 caatcatcaa tcatctttga atcatctatc tttcaatctt ttttcaacat catatctcaa 120  
 acatctttca atcgatcttt caatatcttt ctacagaatt ttctgattta tttctcttca 180  
 tctttctaaa agttttttat caacactttc tcttccaaga aaagttcttt gttcaaaaac 240  
 ttgtgctatt catctttttc attctcttct cctttttcca aaagaatgaa ggactaaccg 300  
 cctgaattct tttgtttctc ttttctccct tacaaaagat tcaaaggact aaccgcctga 360  
 gaattctttt gattcttccc tttcccttaa gcaaaagatt tcaaaggact aaccgcctga 420  
 gatattctttt 430

<210> 34481  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 34481

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 ctgggatctt ggcggacaag aaagactgag gacatcatgg gcaacatatt accgaggaac 120  
 gcatgctgtt attgcggtga ttgacagcag tgatagagcc aggatctcta tcataaagga 180  
 tgaactttct aggttgctgg ggcattgaaga ttacaacat tctgtcattc ttgtctttgc 240  
 taataaacia gatataagg atgctatgac tctgtctgag atcactgatg cactattcct 300  
 tcacagcatc aaggatcata gatggcatat acaagcttgc tgtgccctat caggagaacg 360  
 gttgtatgat ggtcttggat g 381

<210> 34482  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 34482

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 tagttgagtc cacctgtctc aaactcagct taataatagt cgattagctt cagttactac 120  
 ttagtgggat ctgctaagcc gcatataaat taatgcttaa attaggaata actggattta 180  
 agttcactga taatcctagt ttaggtgcat aaactatgta tggtaattgg tgagttcaga 240  
 gtacatgagc aaaacgttaa ataaaagtaa gtcatactaa aagtattaaa caattgtgta 300  
 gtgaagttaa cctatttcac ctttactaa tcaaacttta atccagcttc agattttgag 360  
 ctataagtgg tgcttcaagg ataagtcaat 390

<210> 34483  
 <211> 141  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34483



<210> 34486  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34486

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 cggaatgggt ttaggcaaag acaacggcgg cattactagc ctgataaatg ccaaaggaaa 120  
 tcgtgggaag tatggggttag gctataagcc cactcaggca gatataaaga gaagcatcgt 180  
 gggaaggaag agcggtagtc aaagctcgcg gttgagacaa gaaggtgaag gaagcccacc 240  
 ctgccacata agtagcagct ttataagcgc gggctctgggg gatgaaggtc aagtggtcgt 300  
 gatatacgaa gatgatgttc cgagtacatt ggatttggtg cgaccatgcc ttcctgattt 360  
 ccagctggga aattggcaag tggaggaatg ccncagcatt tacgcaacga gcataat 417

<210> 34487  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34487

agtttgaat ttattttatg aaagccattc aataatatct aaccattttc caatcgtgtt 60  
 tatgcatcca tatacaatac atgtgtcctg atattcctta attgcttatt gactacaagt 120  
 ctacaacgtc aaccacatac attttccttc gatcccttcc atccaaagga aacaaaacat 180  
 aaaagtgaag gcataaacia gaacggaaat ggctctacaa caataattct atatttacgt 240  
 acaagcaaag aatgcaacat catcacgaat gtattacttg gacgtgaact aactcaaaaa 300  
 caatagtgtc agaaccagat tanagctatg tacgtcatga tgaagaagaa attatatatg 360  
 atatgatatc atgcgttatg ggcacagaag atcgttgcct ggcccaccat aatataagca 420  
 tgtgccacat tattacta 438

<210> 34488  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 34488

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 ctctctcag tttagagatg atgatgaaac ttgaaagttg cgaccatctt atatcatcaa 120  
 ttcatttttt tattgggaaa aatttaagtg agttggattc gagagaactc attaggatta 180  
 gaagagactc aagactaaaa aacgcttaca aattactcac caaacaaggt tctaatatca 240  
 aaagcgaaaa tcgaactcac gtttttgtgg gatatgagtt tcttccttac caattggacc 300  
 acaatctgtt ggcttatatc atctattcat aaacctatgg caatcgctcc actaattggt 360  
 gcataaaaag tgtataaaaa agaaagttcg gataagatag agcaacaaac acggtgccga 420  
 cacttcttaa 430

<210> 34489  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 34489

agtttgatgt tgacacaaaa gtctaatatg tttgatgcac ctttcaaata catgggtgctt 60  
 gaagatgtca gtaatcatgc tatggccatc ttaaccaatt tttttttttt tgcaatctgc 120  
 ttatagctga ttttattttg attcttttgt ttctagaagg aaattcccga cagacctttg 180  
 ccatcacatt ggactccttc tatgcagggtg aaaaacatat tctgggttga actttgatcc 240  
 aatttggtgtt ggtatcttga tcatgcacac ttgtgtttgt catacataaa aaggttgact 300  
 ctgtacatct ctctttttaa taggcatata acacttgtgg gtctactcca actccctttt 360  
 taaatcaaca ggcagctggg tctcacatgc ctctctacat gtgggtaaat catgtactga 420  
 tatacatacc attgcc 436

<210> 34490  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 34490

tgcagcacac tagcaaagct agaattatgt ggaacattag atgtttgcct cattcgacaa 60  
 aacaactcca aagcctccct acttttatca ctctgagcat accgcgctat catgagactc 120  
 caaggaataa gatcatcttt cggcatttct tcaaaaaact gctgcgtctc agpaatctct 180

ccagacttgg ttaacaattc aagcagcaca gtgccaacat aaagatccct atcataacac 240  
gctttcaaag cacatccatg aacacttttc ccaacctcaa aattgttcgg tctaaacccc 300  
ataaccctca tctggcagaa aagtagcaac gaatcttcat ggcagtaatt ctcagcatag 360  
caagccatca tcccagtcca agataccatg cccttacaac aaatcccatc ataaacttgg 420  
cacgcagcga taaca 435

<210> 34491  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34491

agcttgtctt gcaccttttg tggaatcctt taaccagaat acctttatct ttttcctaa 60  
attattaatg aataaattgc ttgttgtttt gagattaaat gattgtttct ttttgccag 120  
tctcttaaatt tattttctta ttgaattttt tcttttgggc atcattcagc tcacttttgg 180  
catcccaggc tcatagagga acttaattta atttgtttgt cagagtatag ttaagtttgc 240  
acctacatgt tttactttaa atcttatgca ccttgatggg aattataact atttaatttg 300  
ctttatgggt atttctatt gaaaattatt gtacattccc tttaacagct tatcatgtct 360  
tttcttaacg gtatattcat ttgttgctggg cctgcgatgt ggnggtgtat tctacgtgat 420  
ggaaattctt gtccatgatc t 441

<210> 34492  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34492

tgataatttc cacatctaaa atggtggaac ttgaggtttg ccaagtgcta tcaattgcta 60  
gcttcgtggt cttgctcatg gaagtgatag ggaaggtaga ggaattgggtg aaagaggtgg 120  
aggagctcga agacattgct ggttttcgca ccaccacaac ttcattgtct tcgtagaacc 180  
catctttgta tacaatgata ttatgtaaaa accacttccc aattttgggt catgagttag 240  
aaatatgtgt tttcttggtg ccaaaaaaaaa aaacacattt ttaattagaa atatgaattt 300



gagtgtatca tccaaagtat agtaattgag gtcagatgca attaggtatt taactgtgtt 360  
 tgtattaatg aaaatganaa cattactgaa gtgtcataac cggtaaactg aacctagacg 420  
 caacttttcc a 431

<210> 34493  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34493

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 gttcatgcgc taagcgagtt agtctcgcta agcgcaattt cttctttatt tttgaattag 120  
 gcttagtgag cttgctcgct aagccaatca tgttccagtg gtcaagtttg gctaaacgct 180  
 tgctggcgct aagcctgtgt agtgtgtcgt gctaagcaag tcagtctcgc taagcgcaat 240  
 tagctctctg tgagagaata aggcttagcg agccatgctc gcttagccat tgtgttcggt 300  
 tagctaagcg agtatgtctc tcttagccag agtctatngt tttgtgttgt cgcgctaagc 360  
 gcgccttgcg cgctaagctt gagctggtaa tttcataaag cacgctaagc gagatagtct 420  
 cgct 424

<210> 34494  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34494

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 attttctcc atggagatgc agcggaagac aaaggagaag aggtgagagg aggtgccatc 120  
 cactatggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataaaaa 180  
 gcttgagag gatgcttcaa tggaggaaaa gaaagatgga gagaaagaga ggggggtggg 240  
 ggagcacgaa attgaaggaa gaaaagaggg agagaagttg aactttgagt tgtgtctcac 300  
 aagactctca ttcacaaag ttacaacaag tgttacacat gcttctatct atagactang 360  
 tagcttctct gagaagtttt cttgagaaaa cttccttgag aagcttcttt gagaaaac 418



<210> 34497  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34497  
  
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 gagtccaaca agcatgcaat aggaatgcaa ggtgtggtat tgtattccaa atcaaaggat 120  
 tcatctatgt tactcactca tggtcgagta aaacaatata tgttgagtga aaatgtaatt 180  
 caattgtcca agatataaac ttcttcctga aagcattgta tgaaggaaaa attagcaatc 240  
 aaaaaatgaa gcattcttat aatctacatc tccatctggc atcaatgtgt taaaaagaaa 300  
 tcatacacaac ttgataaaaa cttataaca agagccccgc atatccactt tgtatatcac 360  
 gtatatggta tataccaaaa gatcaaaatt aaacaaggaa acagtaatga anaaagtac 419

<210> 34498  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34498  
  
 agctttgagc caaaatccta actcaccata aaccttgacc cagggtgaga atgtcaatcc 60  
 ttaccctcgg aagcaaaaaa gaagagaagg aaaatttcca atcaaagaaa aaaaagagaa 120  
 ggaaaatttc caatcaaaga gaaagcaaaa aaaggagaga aggaaaattt ccaatcaaag 180  
 gaaaaaagag aggaaaggaa attcccaatc aaagagtggg agaaagagaa aagaaaagaa 240  
 agataattcc caaccaaaga gtgggagaaa gtaaaaggaa ggaaagacag ctctgatca 300  
 aggatcgaaa gatatcagaa gacatgtgca aaaaggtctt tggaccggac aatatctgta 360  
 caatacagaa ttgtcaccaa atgaac 386

<210> 34499  
 <211> 241  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34499  
  
 ntacatgctt gagcggactc gttcagtgtt ccatttgttt gaacggcgct gccttctca 60



agggatctca actcatctaa tatcttatac aaggggtcct tangagtaga accctcacca 420  
ttaatgc 427

<210> 34502  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34502

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gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaaacaag gctcattttg 120  
cttcaagatt aatacaagat tttttcaaca aacaaagcct tgattcaata tttcttcaag 180  
atcaagcctt gcctcaaaat gtagagattt caagtcaccc aaggcacatg taatcgatta 240  
ccaatacatg taatcgatta ccaaggcaca tgaaagtgtg taatcgatta cacatcatat 300  
gtaatcgatt accagagact ctgaacgttg ggaattcana ttataactgt gtaatcgatt 360  
acacaaacat tgtaatcgat taccagtggg aagttttcag aaaatctgcc aacagtcaca 420  
tctttttca 428

<210> 34503  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34503

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aagagttagg tctagccgcg gcccacgagc ataggattgc ggacgaatat gcccaggtat 120  
acgcggaaaa agaggctaga ggaagggtga tcgactcttt acaccaagag gcaaccatgt 180  
ggatggaccg gtttgccttt accttgaacg ggagtcaaga acttccccga ttgttagcca 240  
aggccaaggc gatggcagac acctactcca cccccgaaga gattcatggg cttctcggct 300  
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gacacttgta 360  
tggtctctca gaccttgact agatacgact tcccttttga aatanaatga gttg 414

<210> 34504  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 34504

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 aagcccaaca gaatgatgcc aagaccgact caacacgcgc aagaacaaga acaacctcaa 120  
 gcttcatgac aagaaatcaa gacgttggat atcaagactc acgagacgac gaactcaaga 180  
 atcaggagaa tacatcaaga agactccacc agggacgtac cgaaaaaaat cctcaaaaaa 240  
 caaacatagc acagctccgc gtctaaaacc gggccacac aattgactaa ggtactagac 300  
 gactcactct ctgggaaacg aataccatcg acctggaatc gactaccacg ggccaagctt 360  
 gagggccaaa gcttctaacc gaacgggcaa tggtcacta cgacgttaac gggcgccacc 420  
 gaccccg 427

<210> 34505  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 34505

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 cgagagatga ggctccaag ctccaacaat gttcgactgg tgcagcgaa ggacaccatc 120  
 atacatgcc tcaagatcat ttttcttgtc tgaataatac cttgttgatg cttacagggc 180  
 tggctcgcag gaagaatatg ctggccaagt ctgtttattc aagccaaaaa tcatgacata 240  
 agctcggcac atatacaaga tatcacactg caatggaagg ctgagaggaa tatgttgact 300  
 aacaacacga gttacatggc tgctgacaat gttaacatag cagcaagtac acaagatcag 360  
 tggaagt 367

<210> 34506  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 34506

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aaaacttaaa acagtttagg tttagttttt tataaaataa ttcagttttt aatagtttaa 120  
 ttcatttttg tattaagta gttcacagat caaaataatt ttttgacac ccctaaatac 180  
 tttccatttg ataatggcat aatatatggg agaatttaca taactcatga atgatactta 240  
 ctaggcctac tgcaatgtca aggtgatact tgcgtcctgt agtgtgcact gctccaccac 300  
 gactagaagt ccggttaaaa ttatcattta tcacatcacc tactaggaat ttagaagaca 360  
 ctcagtataa atgctaaaag aggaagttaa atgatatgaa gataacaaat tagatgatct 420  
 aaaacgaagc a 431

<210> 34507  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34507

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 aacaaaacaa aagaaaaaaa ataatgaaa atttttgtaa aaaagaaact tataacttca 120  
 aaatactaag attaaaaata atatatatat atatatatat atatatatat atatatatat 180  
 atatatatat atatatatat ttgaagtagt aaataaataa aaaattaaat tgaagttgta 240  
 aaaattttat aacttttagt aaaaaaaaaat aataataaat tataatagat gttaaattctt 300  
 ttaactcaca ccttataata ctatttcatt ttctataata attttagaat caatcctaaa 360  
 taaaaaaatt acaccgtct aatataattg aacagagagg gttcaccttt ctctcactct 420  
 gtttcacaa 429

<210> 34508  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34508

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 agtggatggt gcctcttctc acctcttttc ctttgtcttc cgctgaatct ccatggtgaa 120  
 aaatcaccat tgaatgaagc tcaaagatcc agcctccata gaagcttcac aagcaagctt 180

ccatcacttt ctctccctct cctccactc atcttctctt accttcaagc tcttacctat 240  
 ggcttctctat gttggtgagc tntttcttga ctcatctttt ccttgaagtg gcgtctccaa 300  
 tcatctttct tccatctcca ttctgctacc gttaaacttc aagaagcaag ggactccatt 360  
 gatgaagatg atccaaggcc tatatgctcc acattgagtt acattacgaa atatacttgt 420  
 ttgacaatgt agacaattac 440

<210> 34509  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 34509  
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 caattccagt tctaagattt cgttttagca ataaaaattc gttctctatt gattaatgga 180  
 aggctaagtc tccagcgtg ttttctcttg aggatcaaac acaattctct ttgaggctct 240  
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 tatgaattca tgcattgcta gagcttgatg aattgtctat gcacttaatt tacgttcatg 360  
 cttaatgacg gttcatgatt aattggtgta tgtgttgctt aatcacataa tgaatgcctt 420  
 atgttaaatt t 431

<210> 34510  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34510

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 aatctccata ggaaagacat ttttaaattc ctgcaataag ggttgaacac taggagaaat 120  
 agaaatagta aatcattag aattatgagt agaaatttta ctgtctttgc aatactgtag 180  
 attgagtggc tcatgagcag gtaacatttt cctcacttca ctgcctctg caaaataatt 240  
 aacttttctc tcatgtgat cactctcttc ctgggtgta tcaactcttc tcatattcct 300



ttgtggcgcc tcactatfff ctttctcttg atctctctct tctctcattc tgatttgagc 360  
atcacacact tctctaggng atagatgttt aagagt 396

<210>	34511
<211>	426
<212>	DNA
<213>	Glycine max

tcagaattca	atttcgagcg	tctcaataga	ttacggttac	tcaatcagac	attcgagcaa	60
aacattattg	tcgtttgaat	tagctcagag	cttcagaatt	caatttcgat	cgtctcgata	120
tattacgggt	ctcaatcaga	catctgagta	aaaaagttat	tatcgttcga	atttgctgag	180
agcttcaaca	ttcaatttcg	agcgtctcga	tgtttttatgg	gacttaatca	gacatccgag	240
taaaaagtta	ttgcgcgttg	aatttgctga	gagcttcaac	attcaatttc	gagcatctcg	300
atatattacg	ggactcaatc	agacatccga	gtaaaaagtt	atcgtcgttt	gaatttggtc	360
agagcttcaa	cattcaattt	ggagcgtata	catatattac	gggactcaat	cagacatccg	420
agtaaa						426

agatgncagt	tattcttaga	ccacagcacg	accattaac	cttgaagcaa	aacacctcac	60
tgccattaac	ctatggaatt	aacaaaaacc	tatcggtga	gtgtaactga	aattgcggtta	120
acccaaaagtc	accccccaaca	gtcaacaact	cagccaccat	ttggtctcct	aaaaagctga	180
tgccctangtt	gccaatggg	ccctcattac	aacttgatca	caacctaact	aaagcccttc	240
tacttgatta	accacacaca	tattctt				267

tccgaacccg gaacataaga tagcgcgacg ctcgatatag tacaacggac gtgctcaaga 60  
aattecaaag gtcataactt ttactgaga ggtccaaata tgcaacataa tacatcgaga 120  
ccctcgaaat tgaacaacgg aagctctcca gaaaaacgaa tggtcataac tctgcacttg 180  
gatgttagaa tttggaacat aatatatcga gacactcgta atagatcaac ggacgctctc 240  
agaaattcaa atggtcataa cttctcccac ggatgtctga atc 283

<210> 34514  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34514

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accaattcaa ttaaatttat ttcccaacac acatatcaaa tattcactta gtgcatgtga 180  
aattacaaaa ctacccttaa tacaaaaact agtctatgtg ccctaaaata caagagctga 240  
aaaatcctat atttctaggg taccctacct acattatgga gccctaaata caaggaccaa 300  
atataatgac atcctagtct aatatgtata aagataattg gactcaacct tggcctgtgg 360  
gctcagacat ctaccctgag gatcatgaga accctanggt cttcttcacc agctatagcc 420  
caatcctctt gg 432

<210> 34515  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 34515

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attgaatgct tggaaagggc aatcaaaaga tgctattcaa gggaattctt ccttgttcga 180  
gaccattttc caatgtaaca actttatatt cagtttttta tttctacaat gctctttgca 240  
aagaggcatg ctcagaataa tttgataaac atatatgcct ttatatgatt gcagcttcct 300

ttgagaaatc attgcaaatt gttcttgtca gagatgttga tggtaaaact ttttgcgatg 360  
 ccttaagtga tgccatatca ccaagaattc cacaaccac aactacagat gaaactgctt 420  
 tgacc 425

<210> 34516  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 34516  
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 gccctccaaa atacitcaat tgaagcattg agaaataata aaggcttgtg tggcaatgac 120  
 actggcttgg agccttgac aacatcaact gcgaagaaat ctcatagtca tatgacaaag 180  
 aaagtcttaa tatcagtttt accccttagt ttggtcattc taatgcttgc attatctggt 240  
 ttccgagctt ggtatcattt acgccaaaat tcaaagaaaa aacaagacca cgctacagat 300  
 ttactatctc caaggagtcc aaacttatta ttaccaacgt ggagtttgag tggcaaaatg 360  
 atgttcgaga atattatcga agccacacaa tatgttgacg acaaatatct tatt 414

<210> 34517  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 34517  
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 taaacaagaa cactttaatc gatttctttg agtatctaata cgattacatt gttcttgagt 180  
 tgtttctagt tttttggaag aacactacaa ttgattgaaa gataatataa tcaattactt 240  
 cattgaatta attaattacc ttgtagattt aattgattac aggcgggttat aactgttttc 300  
 tctataaata accacattgt gttctctcta ataacataac attttgagct tctgaaagag 360  
 ctatgatcac gtgttggttat tagttaaaga aagaagagaa gaaaagtgtc tagtcataac 420  
 ttc 423

<210> 34518

<211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34518

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 gtatatcgag acgctcgaaa ttcaaaataa acctctcagc aaaatgaaac gacaataact 120  
 ttttactcga atgtccgaat gaatcccgta atatatcgag acgctcgtaa ctgaaaacag 180  
 aagctctgag caaattcaaa agataataac tttttactcg tacgtccgat tgtttcctgt 240  
 agtatatcga gaccctcgta attgaaacca gaagcccgta gcaaactcaa acggcaataa 300  
 atttttactc ggatgcccgta atgaatccca taatatatcg aggcgatcgt aattganaac 360  
 agaagctatg agcaaattca aacgacaata actntntact cggatgtccg aatgaatacc 420  
 atntaaatcg gat 433

<210> 34519  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 34519

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 aaagttatta tcgtttgatt aggctaagag cttgtgtttt gaatttcgag cgtcttgata 120  
 tattacagga ctcaatcaga aatccgattt aaatgggtatt cattcggaca tccgagtaaa 180  
 aagttattgt cgtttgaatt tgctcatagc ttctgttttc aattacgac gcctcgatat 240  
 attatgggat tcattcgggc atccgagtaa aaattttattg ccgtttgagt ttgctacggg 300  
 cttctggttt caattacgag ggtctcgata tactacagga aacaatcgga cgtacgagta 360  
 acaagttatt atcttttgaa gttgctcaga gcttctgttc tcagttacga gcgtctcgat 420  
 atattacgg 429

<210> 34520  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 34520

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 tgtaaaataa ataaggatgc atagttctat taattaaaat aatgggtctta atgtaaataa 120  
 aataaatatg tttttacaaa ataaaaaaga tgtcttgttt atttatttca atacggagta 180  
 aaataaagct ctctttcaaa attgctctcc cttcttcate tccaaaaact ctctctttct 240  
 accgcataca cgcaaataa tgcgaataaa actatgatcc tagacttgcc aaccattgaa 300  
 tcacctgaa atatggacac caccttcata actcattatt gcacattcct attggtgcga 360  
 tttgccaaat aatgtctgt 379

<210> 34521  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34521

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 ccaagagggg ggtgggggtg aattggtttc taaatcataa tagactttta aaaaccagag 120  
 gaaacaaaac ttcttttcca aggatcgtat cacaaaattt tgataaacca atattttaatc 180  
 aatcacccctt tacacaaaat cttttgttaa agtttgcac accctaattt cgtccgggga 240  
 cttttgcttg atgacatgcg acctttcttt ggtccttgtg aggtgcttgg taccatcat 300  
 tacgcaattt gtgaaattcc aggacatgcc gaaaaacaca aataaatatt gatgcacaat 360  
 ccgtatgtat ccgtgacaca ccggaaatca aatggaagca tcgttgcatc attaatgag 420  
 gggttcataac 430

<210> 34522  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <400> 34522

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 ggagcatgaa attgaaggaa gaaaaaggga gagaagttga actttgagtt gtgtctcaca 120  
 agactctcat tcacaaagt tacaacaagt gttacacatg tttctattta tagactaggt 180

agcttccttg agaagatttc ttgagaaaac ttcccttgaga agcttccttg agaaaactta 240  
 cttgagaagc tagagcttag ctacacacac cccctctaata actaagttca cctccttgag 300  
 aagcttcctt gaaaagattc ctataataagc tagagcttag ctacacacac ctctctaata 360  
 gctaagctca cctccttgag atgagaagct agaacttagt tgcacacccc ctataatagc 420  
 taagctcacc 430

<210> 34523  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34523

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 ggcacttctt tctcttttga atttgctaag gaaaattatt tccgtgaaga taatccaagc 120  
 cgaggecgtt ccgtaacgtt tccgtgagta actacgcgaa gattctcgac cgttcttcaa 180  
 agattcctcg ttcgttcttc gttttcttca gtcttcaacg ggtaagtacc tcaaaccaag 240  
 cttttcaatt cactctatgt acccgtggtg gtccacattt tgtttcatgt atttttattc 300  
 tcgttttcat ttacttttta taccctctt tgcagtgtt aagccattta cttaagtcac 360  
 ttctcgctta atctaaaaat aacataaatt tccaccgatc gtttgaattg tatcatcc 418

<210> 34524  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34524

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 ggcagggccc aacagcgtca acaagggtt cccaccacg cttcttagca actccaaaca 120  
 agagtccaaa aagatgagga agttgctccc tcagttcctt aagcccgcag ctctccaacg 180  
 ctacgttgga atcatggaca ccattgctcg aaaccacttc gcttaccttt gggacaacaa 240  
 gacggaactc accgtctatc ccttgcccaa gaggtcctaa atacattcac catcttcttc 300  
 tttaaagat tcccatgcta ctctctataa tcaaaatatt ttccttttct tcatgttaat 360

caccatgggt ctcactttca gtagcatcgt gcaaccata aatgaatatt actaaatttc 420  
cttttcacac attaatccca ctatgcatcg gcat 454

<210> 34525  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34525

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gcttctctgt tgtttgtttg cgaattttta taaatnttct aaacatctaa tattttgtta 120  
attcaattca agtagatatt aaagtaacta tcattccaaa caacaaagtt ttggctaaag 180  
gataatgtac ccttggcgca cgcagttcaa ttaaatacta ttaaaatatac tttatggaaa 240  
tttaattggt gaatagacat ttttgtaaata tcattacagc aaatattttt attttttaat 300  
aaagggttggg gcaatgtcaa gattggagta cagcgaataa tacttgtgag aaaagataat 360  
cggaataatc atagcaatag ccaataagaa gataagcaac gtcagtacat cagctc 416

<210> 34526  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34526

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accagactt cacatgggag gtggtcaagc ctctaaagtg ggaataatgc catgaataaa 180  
gctgattgcc aagaaactat gtttgatctt atatgctttc atacctaaga tccgtgatat 240  
gattttgcct tagcttttgt atctttataa ataaataaaa catatatatg tcgagttgag 300  
tatatgaaca taciaaggaa gctgcatagc agcatcaatg tactattgga agttaatgtt 360  
tgagatatat ccgttacgat cgctatccat tatccattat gtttcctctc aattgctgag 420  
agtcttagag aatcttga 438

<210> 34527

[illegible]



<400> 34529

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gtcatcctgc ttggacgaat gagaaaactg gggcaaatga agagggtgag aaagaggag 120

aaacccatgc tgtgactgcc attcctatac ggccaagttt cccaccaacc caacaatgtc 180

attactcagc caataacaaa cctcctcctt acccaccgcc cagttatcca caaaggccat 240

ccctaaatca accacaaagc ctgtctaccg cacttccaat gacgaagacc accttttagca 300

caaacaaaa aacaccaaca aaaaggaatt ttgcagcaaa aagcctgtag ggttcacccc 360

aaattccgtt gtcatatgct cgaacgcaac gtgtgcttat aatggaggag ccccggtgca 420

ttccattgag cat 433

<210> 34530

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34530

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aactacccat catatctccc aaagacccaa taccacagaa tttcatgtga gaagaagtcc 120

accatacct gaaattcgaa gtcccacaac gtagaggtgc gcttcacgac ttcgaaaatg 180

gcttcctttt gcaatttgga gtagaagtga tgagcaaagt ttggagcttt aatgggcaac 240

aatggtggag gagaaaagga gaagaaaagc aacgtgggag atgaggaaaa agcttctgaa 300

aatctgctga gcgaagtgag agagtgtggc tntttaaaaa aaaaactttc tttttcctat 360

tgttttatct cttaacagca cttgccactt gtcccattgt gagtgggaaca aanaggggcc 420

cacttttctc tcgatgtga 439

<210> 34531

<211> 363

<212> DNA

<213> Glycine max

<400> 34531

gggagggcga cgcgagactc acgggtgctt cttccaagaa aggaaaatgc atggagtcgc 60

caccaacgtt tatgtgggga aaacatccga aaaaccgaaa aagacgtggt ctacaaactt 120



tattggccaa caca

434

<210> 34534

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34534

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atttgatcat cctactagga cgactgagaa aactggggca aatgaagagg gtgagaaaga 120

gggagaaacc catgctgtga ctgccattcc tatacggcca agtttcccac caaccaaca 180

atgtcattac tcagccaata acaaacctcc tccttacctca ccaccagtt atccacaaag 240

gccatcccta aatctaccac aaagtctgtc taccgcaatt cccatgacga acaccacctt 300

tagcacaac canaaacatc aaccaagaag tgaatcttgc agcgagaaag cctgtataat 360

tcacccaat tcagtgctc tatgccaaac ttgatcccat atctacatga taattcaat 419

<210> 34535

<211> 430

<212> DNA

<213> Glycine max

<400> 34535

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tgagacttgg gttcctagga aaaaaagcta taatatttca acttggtctt agcctttatg 120

caatgggaat aggttgaagt tctaggcata aacaaattca gtttgatcac catggacttg 180

tttagtctag acaataagaa cttcttcaaa tagtggaggt tgagttgctt aattttgttt 240

tataggtagc actcattttg ttagttttaga tatgacatgt ttagtcttaa aggttgtaga 300

actttctctc ctattaaagg aaagaatggg ctgatcatca ttttttctta gtggaccaac 360

attagtttgt gtaaccactt gatcttccct cataataatt tatttaaact taatctttaa 420

tgatctcttt 430

<210> 34536

<211> 436

<212> DNA

<213> Glycine max

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 acgacctaac tcctatagtg gtgaaagaaa cctctgtctc acactatcac aggaaaacgg 120  
 ttgacatttc accacaagac gagaatttgg aattgcacat agtatctttg cccagacctg 180  
 cagtaccttg ggtcgtaatc tgaataaata aaacaacatg aatcacggga tacacgactt 240  
 acctcttaca attaggtatt cataatctaa aatacaagta cgtgatatat ttaacaatat 300  
 tactaccctt ggcaagattg ttggaactac caattgcaac gaagccattg gtaagagcat 360  
 gagctggaca aactcgacca gcctcacggg attgagtgtg accaaggaag cattccgggt 420  
 atcgaactat ctcttc 436

<210> 34537  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 34537  
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 tgtagcaaat gatttcatta atataagaga cagcctccct tacctacca cccaataatt 180  
 gctttttacca ctttccaaaa gattaaataa aaatgaaagc attaccaaga tacagggaac 240  
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 gtaggggcag atgtgtcttt gaataagtct atcacattat taggaaatag tgggtcatat 360  
 atgcgtaata tacgtgagca gttctctttt gttttcaagt ccacaactct gatgtaacgc 420  
 tatatat 427

<210> 34538  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34538

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 ggaaatggcc ccgaggaagc ttgcctcaca gaggtccagg agggacaagg cagccgaagg 180  
 aactagttcc gctccggagt atgacagtca ccgctctatg agcgctgtac accagcagcg 240  
 cttctaggcc atcaagggat ggtcgtttct ccgggagcga cgcgtccagc tcacggacga 300  
 cgagtatact gatttccagg aggaaatatg gcgccagcag tgggcatcac tggttactcc 360  
 catggccaag cttgatccag aaatacgtct tgagtcttat gccaat 406

<210> 34539  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 34539  
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 cgggggtgcta ctgccccaaa ccaagcttga ccaatccga cccaaccgg gcatagccgg 180  
 tcagtgagaa cctgtgatgt acctaaacag gcgagctcct ggcagtcaac agataaaagg 240  
 aacagagacc acaaagcaag gacgcttgcg gaggct 276

<210> 34540  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 tctatcatat gctgacaata gccgagaagc ccgtgaatct cttcgggggt ggagtaggtg 180  
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 ctagectctt tttccgcata tacttgagca tactcatccg cgattctatg ctcgtggggc 360  
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<210> 34541  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 34541

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 gggctaagct cagcatttgg gctaagcgca tatccaccgc taagcgcgagc tgcagcgcg 180  
 ttagcgcaaa ggagaatctg gcagagcatc aacatcaaag ccacgcgcta agcgcacgat 240  
 cagtgcgcta agcgcgagcat gtgccttcag caaggctaag ctcgagactg gcgctgagct 300  
 cgatatcact tactctcgct aagcgctagg gtggcgctaa gcacaacatc gcgattgtag 360  
 agcctat 367

<210> 34542  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34542

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 acctaagaaa actatattat ctacacaaaa ggtacacttc tctatatttg catagagggt 180  
 gtttttctta aggactgaaa gaacttgtct gagatgtcct aagtgatcat ctaggctcct 240  
 actatacact aaaatatcat caaaataaac aactacaaat ctacctatga aatcccttaa 300  
 gacatgattc ataagcctca taaagggtgct tgggtgcatta gtgagccan naggcacac 360  
 tagccattca tacaaccaa acttgggtctt gaaagcagtt ntccactcat c 411

<210> 34543  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 34543

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 aggtgtttac gtagttcatc tgtaccatth ccttcaacgt ggcaacttat aattgtcatt 180  
 tccggctcct caaaaactat aaaatccaat cccttgatat cctcagttcc aacctgtgaa 240  
 catcaacca agcttacaac agagcagaac attgacagca aatctaaagc agatagctac 300  
 cggaactaa ccttgacagc aatagaatct ggagatgcac gctctatatt agaactgccc 360  
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 taat 424

<210> 34544  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<400> 34544  
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 taaatacttt tctcttctgtc tttatatgtg agttttatct ttttcaactc ttacatttga 120  
 ttcatacttt taaattgaat gtcaattttt ttcaaaaaat ataccaataa taaaaaataa 180  
 tcttgatca agatataaat gtttatgtaa atctaaaatt aaaatattta tttactgtat 240  
 attaaaatta aaatatattt atttgttgaa ttctttttat caacctgtct a 291

<210> 34545  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34545

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 ttccaaggat tgcaataaaa ctaggcatac tcgaatgtaa cttaagaaaa tagatgaaaa 180  
 ataagaagca gaaattttta aggtactagg ctgcctccta gtagcgcttc tttacgtct 240  
 tgagccggac ctgngatgat gatctattga tcgcggggccc agcacctact cgtacctgcc 300  
 cctaagcttt tgaatacaag aaatgacaac atgcagtana tgcaaaacaa catcacaaaa 360





<210> 34548  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 34548

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 ttgatatttg tattgcatca tgcacatcgc tggtttatgt gaagaaaagc ttctaagtta 180  
 gaaagtttat tcagaggaaa taactctcta ttttaatcgg ttacatcctc atcgcaatcc 240  
 attacaacaa gttgtctaaa gcttaaagag ttgagtctca tattagttta atcgattata 300  
 gtagtctttt aatcgattac actgttgttt gagatagtga ctgatttatt caggagtctc 360  
 tgctttaatc gattgccttg agcagagtac ttattagacc tat 403

<210> 34549  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34549

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 gggtcctcct ctatatccat aaccacgaaa tctgcaggaa atacaagctg cttgacttga 180  
 ataaacacat cctcaatcac tccatacggc ctagtaatgg agcgatcagc caactggagg 240  
 gttatacatg tgggcattat ctctatctct ccaagtcgcc agcacatgga tagaggcatt 300  
 aaattgatac tagctcccaa gtctatgaga gctntaccta caacaacctc accaatagaa 360  
 cacggtatag tgacacttcc gggatcatta tgcttcgng gaaggatgcg ttgaatgact 420  
 gtactacagt tac 433

<210> 34550  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34550



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 actggaatga aggaattgtt actgggggtct ttaagtgaga aaagctgtga ttctggttgg 360  
 tgtnntgggc agagttttct gcctttgccc tatnttcttg gctgtgatag ttagtgctgg 420  
 ttgaatattg tcttacct 438

<210> 34553  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34553

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 taattctgac ttgcagcagc ctctatcca ttttctatct ccacctagag caattccaaa 180  
 caaaaaagat ggaagaagtg gataaggaga tcttgaggac cttcaggaaa gtagaggtga 240  
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 tgtgcaccca caaaaggaag ctcataggca atggaaggat tagcatgggc agaaatgtgt 360  
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<210> 34554  
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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34554

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 catggagcaa tgataattgg aggatccagc caccaaaaaga acatgcatcg tgaatggcag 240  
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ggtatttgag aatcactaaa aattagtgag aaaaattggt ttcgtgaaga aaaccaagc 120  
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ccgttcttcg tcattcttta ttcgttcttc gtcgttcttc ggtcttcaat cggaagagtt 240  
ccgaaatcga acttttcaat tcattctatg tacccttagt gtgccccact tgttacgcgt 300  
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<210> 34560  
<211> 416  
<212> DNA  
<213> Glycine max  
<400> 34560

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gtgtagtcca cggagtcctt gtgcgagtggt gggattcggt caaacagttt gcgggcgtgg 180  
gaagggaggg ggcaggaggc gtagaggtgg aggagggcgt taaggaggaa gctggagggg 240  
gagaagagga ggccggagac ggtggccgcg gcgtggagtt gctcgccggg gcggacggcg 300  
gagggcgggg cgcattgtcg gagaagagaa cggaatatga gagcacactg ctgttggtgtg 360  
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<210> 34561  
<211> 427  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 34561

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caatcttacc attagatagt cattgagaag tgaatagaat gaaatgcac ttatttggtt 240  
atttaatttc acctttttca ataactaaaa tatgtataat gttttctaac tcccgttcta 300  
tctttaaaat gtatcctact cgaactagtt ccctgggcat ttattatatg ggtatttaca 360

agtttaaata aattttaaaa ataagaatta tatgaaaata tcattattgt tcaataataa 420  
 atatcat 427

<210> 34562  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34562

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 tgacagatgt agtaggagct tccattgtta gagtgtagtt gttgaagaaa gataacagcc 180  
 tgtgagaatc aatctgtgcy ttatttttagg agtgcattgt tgatcaatat tatttttagga 240  
 tcatatatat ttcattgttt ctagtataaa tatctacaat tattcttcta ctaagggaga 300  
 catcttttgt ttctataaac atgtgctang aactttgtat atatttcccg ttgatctgat 360  
 caatgaatta tccattcaaa ccataatagt tattgtcttt atttttntga gtgataaaaa 420  
 atacacagag aatg 434

<210> 34563  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <400> 34563

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 tcggttctcg atgttccaa gagccctttt gagttttccc taccaaattt ctctcaccag 180  
 tcaactaacat aacacaaaat ttctgattca ggtctcttcc gcgtatgcgc caccacatca 240  
 tcacaatgtc ccacttacat attcgcacat ttatattatt ctaccgtac ttagtactt 300  
 accatcttca tttcatacct tatatatata tatatacaac tctcatcaca cactataaat 360  
 accctctcat tcttcttctc attccacgca cttagcaatc aatcaacact tccaattaca 420  
 atatacaca 429

<210> 34564  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34564  
  
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 tctttgggca tattctatga aagatccgtg cccctttttt gcacatgttc tgtagttgca 180  
 tcctatccgg agccatatca naattgtact gacactgcct aatgacggcg accattatgt 240  
 ccttccaaga atggaatcac gaacgttcct aagttactat accaggtgac agttgtccca 300  
 ataagacttt cttggatgac atgtatcact agtctctcat cttttgcat tgacacatc 360  
 ttttgacaac acatc 375

<210> 34565  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34565  
  
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 ccttgtgagg tgcttgcat ccatcattag ccaatttgtg aaattccagg acatgccgaa 120  
 taaccaataa aatattgatg cacaatccgt aagtttccgt gactcaccgg aaataaaatg 180  
 gaagcatcgg agcataatta aatgaggttc cgtaacattc cgtaagtcaa aaggggggatg 240  
 attatgtaat ccgcaagggt tcgtaacatt acggaaagaa aacaagtatc gtcacgaaat 300  
 tctaagtttc cgtaacttta cgagaacaga atcacctcat aacagcagag ggggtgcact 360  
 tattaataat gggggtgcaa atagcaccca ggcc 394

<210> 34566  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34566  
  
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 tgacgctgac accaaaacaa ctcaatcaag ggatcaccaa gagaacacag gcagtgcaaa 240  
 accatcaaca atctcttcag caacctctgc aatagctgat aaagccatat aagccaaaaa 300  
 cacagtctct tccaagctcg gatacgctga caacaacact gaaactactc aagcaagcca 360  
 tcaagagaac acacaaccat caacaatctc 390

<210> 34567  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 34567  
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 ctttgaagct acaacatttt tggcagtgat ggctttgtca gctattgctg tggttgctga 180  
 ggagatttta tctgtgtaac tgctctcgtt tgatggttct tagtgtggct cctcaacttg 240  
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 atgacttcca gctgaagcac aaagagtatg tgttgaatct gttctaaatt gttgcgggcaa 360  
 gtgtcgggtca tggatccttg atgaagtgtg ctgaat 396

<210> 34568  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 34568  
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 aacctcagat ggtctagccc tcatgaacaa caacaacagc ctgctcctta cttccaaaat 180  
 gctgctggcc caagcagacc atacattcct ccaccaatcc aacaacagca acaacccag 240  
 aaacagccaa tagttgaggc ccttcacaaa ccttcctctg aagaacttgt gaggcgaatg 300  
 actatgcaga acatgcagct tcagcaagag accatagcct ccattcacag cttaaccaat 360

cagatgggac aattggctac ccaattgaat caacgacagt cccagaattc tgactagctg 420  
ccttctcaag ctg 433

<210> 34569  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 34569

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ggatgtcaat atcttcagag acatccatta ccataaagtc taccgggaag ataaaatatt 180  
ttactctgac caaaacatct tcaattactc catatgacct ggtaatggag cgggtcaacta 240  
attgtaaagt cattcaagtg gggcatttcc aactctccca atcttctgca catggagagt 300  
ggcatcaaat tgatactggc tcccagggtca ataagagctt ttcctacatt gacttctcca 360  
attgaacaag gaatcggtac actcccagga tctttatgct tgggtggaag gatcttcta 419

<210> 34570  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34570

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tgaaatttat caactaaaat atgctagtaa ataatacatt cttgctttga ttttttagcag 180  
agatccacat atgatgaatc tttgaatatt tgcagtgaac taaatgatac tgttattgag 240  
gcacaactaa ggacaagaca agttccacct cggcttccaa ccaagactgc aattgaaagt 300  
tatcagcagt caactaatcg actgctcatt ntggatatgct gtctcacaat gaagctcgag 360  
acttctctga atacatcttt ctgtttcctt gtcttttact ccttatctga gttctttcta 420  
caggatactg cttcatttct 440

<210> 34571  
<211> 430



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 ttaatgatgc ccccaaagca ccagagtttc ttggccgcat ttttgccaaa gctataacag 240  
 agcatgtagt ctctttgaaa gagattgggc ggtaataca tgagggtgga gaggaaccgg 300  
 ngagcctctt agaagctgga cttgcagctg atgttcttgg aagcaccttg gaggtaataa 360  
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<210> 34574  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34574

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 gagacccttg gtccatgtgg atcctgctac cgggaaagca gatggtcctt acaaaaagaa 180  
 gttaagaacc tatttgggga tcgtcgctcg tgataagggtg aatgtcacat acgagaattg 240  
 gaagcaagtc cctgctgctt agaaggattt gatatgggag gatattcacg tatttttagtt 300  
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<210> 34575  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 34575

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 ttgaatcaat tgacaaaata tatcataaga tataagtctc aaagttcata aatagagaga 180  
 gccacacggt caaaataagc aaactaacca tgactgcaga aacaaatatt gaaataaata 240  
 atataccact attatgtgta gtggatcttt ccaatttttg tacctaaaac tcgattttct 300

tgtaaacc aa ggccaaaaag accaccaaaa cgagacttgt caaccacttg agagcctaac 360  
 tgaacttgct tagattataa ttttgctctt acgaacttac aatgttataa cctcggtgaa 420  
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<210> 34576  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 34576

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 agccccacg gcttggtggg agatactgac taaatccctt ctacaaatgg acttcactac 180  
 atgaaaggtg catactactc gtcttctatc agacaaccac atcagatcat attcgggcat 240  
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<210> 34577  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34577

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 gtctagtggg gaactgacag gttgttcaaa cttagtgggt tgttgtttca attgtgaatt 240  
 ggttggtgta gtggaatatc atatttaagg gtgaggacta gacatagccc aagggttaggg 300  
 tgaaccagta taaaaacctt cgtgcattnt tctatattct tactcttgac tntgttttgc 360  
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<210> 34578  
 <211> 402



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 cctggatggt gaatttgaca tagatccgca agacgacacc tctgacagag gcctaaaacc 300  
 catcaaagag cttgtacagc tgtaactcag acctagaccg gngtagtgca ctoggcttag 360  
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<210> 34581  
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 <212> DNA  
 <213> Glycine max

<400> 34581  
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 atgcagtaac taggaagtga tcctagggtcg tttcccaatg agcaatgaca aaccaaagt 180  
 tcataatata cttgcgcagt aacagtaacg attggggggg gggtttggtt gttttgtgat 240  
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 ctctg 305

<210> 34582  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34582

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 ctctgaaaac ccatgggtgg gagttcttct caataaacct ctgaacctct ccaatgcttc 240  
 actcaaagat tcattcaggga actgatgaaa tgaagatatt gcagctttcc cttccacagt 300  
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<212> DNA  
 <213> Glycine max  
 <400> 34585  
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 tgttgaccaa ctcatagcac atattgttca cctttatcga gttgtatatg ttcatatgga 240  
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<210> 34586  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <400> 34586  
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 tgtttaacat ccagctgttc aagttccaaa tcatactgat ttaccagacc aagtatgatt 360  
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<210> 34587  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <400> 34587  
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 ctcagaagtt caacattcaa tttcgagcgt ctcgatatgt tacgggactc aatcagacat 420  
 ccgagttaaa agtta 435

<210> 34588  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34588

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 tactcggatg tctgattgag tcccgaata tatggatacg ctcgaaattg aatgttgaat 180  
 ctcaaagcca attcaaacga caataacttt ttaactcggat gtctgattga gtcccgaat 240  
 ataacgagac gctcgaaatt gaattattgaa gctctgaact agttcaaacg acaataactt 300  
 tttactcgga tgtctgattg agtcccgtaa tatatcaaga cgctcgaaat tgaatgttga 360  
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<210> 34589  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <400> 34589

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 ttggaaacag cgaatgcaga caaactatgg acagcgagat ctaaaactga caccaatgca 240  
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375

<210> 34590  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34590

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gattcacctc aactccttat gttcccatgg acccggtat agggccccctt ttcaattcac 240  
cgtgtgtgca aaaaagggtg tgggtgtgtg tgcacaaat gaatgcatat ttatcacatg 300  
catacattan aacacgctta nagcatcgaa gaagtttata caagaacata taggaaaagg 360  
gaaaccgatg atagggaaaa cacaactttt gcacaaaaga ataataggcc taactctcta 420  
anaacag 427

<210> 34591  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 34591

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accattaaag gacctcattg aagctcaaag atgcaacctc catagaagcc ccacaagcaa 180  
gcttccatca agtggtaatc agagcacaag agcttcaagt aggtgctcct taaacctcca 240  
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cctcacatgt cttgtgataa atgtttttta catgattctt tagagtttcc accgattaaa 360  
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ccatgaa 427

<210> 34592  
<211> 439

<212> DNA  
<213> Glycine max

<400> 34592

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ttcttggtac ataatctgag aaatttaaag acattaaacc ttcaacactc ccgacatcta 180  
attgagatcc caaacatatc caaggaaaaa aaaaacttgg aaatgttaat ctccaatggt 240  
gtgaaagctt gcatcaggtc catccattaa tgatatctct tccaattct acacatttgg 300  
aattaagagg ctgcatacag attgaaaacc ttgatgttaa atcaaaatct cgacttcgtg 360  
aaccttttct agacaatcgt ttatctctca agcagttctc agtgaaatcg aaagacatgg 420  
caagtttgag ttacatgac 439

<210> 34593  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 34593

tgaaggatcc gagaagcttc ttcacaatag tttcttttat acttttcacg ggcttgtttc 60  
aaaagaaatt ttttttacct aaaattagtc ttgcttttgc ttattttaat tgttgaaatt 120  
tgttttactt atgaggtggt tgacaaaatg tttctaatag aatcaagatc ttttttggtt 180  
taaattttta gtttcaattt ttgtatatg ttcttttttt gtaaaaggct tgactagggt 240  
acatttctat gtttcatttg aacatgatct tattaagctt gaaggatccg agaagcttct 300  
tcgcaataat ttctttcaga cttcacattg gtttgtttca aacatgaaat ttttttacct 360  
aaaattagtc ttgcttctgc ttattttaat tgctaaaata tggctctgctt atgacgtggt 420  
tgacaaaat 429

<210> 34594  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 34594

agctttaaga ataagatggc ctcagcaaat tccttatttc cagaaggaaa ttctatcaac 60

agaccttcaa tctttaatgg agagggttac cactactgga aaacccgaat gccaatTTTT 120  
 atcgaagcca tagaactaaa tatttgggaa gccatataaa taaggcctta tatacccacc 180  
 acagtagaaa gagcttcaat agatggtagt tcatccagtg aaagcataac catagaaaaa 240  
 cctaaagata gatggctctga agaggagtat aaacgagttc catacaacct ctaaagccaa 300  
 aacataataa catctg 316

<210> 34595  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <400> 34595

tgtgcaaate aaatcactcc tacatctcat ttctattatg cattttcttt ctttaccac 60  
 tcttcacgtt tggtttttta gggaaaaaca ccataactaa acgcgccgca agggatccct 120  
 atcgcaccag atccaaatct agaacgatgg gtgatcaaga ggagacgcac gaacagatga 180  
 aagccgacat gtcggctctg aaagaacaaa tggcctccat gatggaggcc atgttaggta 240  
 tgaaacagct catggagaaa aacgcggcca ctgccgccgc tgtcagttcg gctgccgaat 300  
 cagacccgac tctcttgggc actacgcacc atcctccctc aaacataata cgactgggaa 360  
 gggacacact ggggcacgat ggcagccctc acctgtgata caaccgagcg gcttactctt 420  
 atg 423

<210> 34596  
 <211> 573  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34596

cgcgaccca cagcaatata tagacnacgc accgctaccg ccatatncan ncaccccaa 60  
 gcgagganaa ttgagccaga aacctcgaca atcaaggcga aacgagcgcg gacnccggga 120  
 ncctctagag ncgacccgca agctatgcag cttcaacatc caagacatca agagaacgcg 180  
 aacacacaca cgaaccagcg actacgccga caccgcctct gaaagacaag gaaaaggcac 240  
 tggcagcaaa actaaacaag ctctggactg catgcgcacc gacaccatcc gagcacgaca 300

cctaccagac gcaggccgaa cacaaccag atacgacgcc caaacatacg ctgcatacc 360  
 cacaaccccg gcagcgccac cgccggaaca acagaccttc acaagaacaa acgcgaaccc 420  
 cgaccaacac ccaaccggc cgcgccaatg caccacccc acgcccagca accacaaacc 480  
 taacagcccc ccgaggagcg aaccaccaa agcacgccga cgccacacag acacgcagac 540  
 acaggacaaa cccctcacga gcacagccca ccc 573

<210> 34597  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 34597

tatcaagctc ttcaatgaga gatttggttat ttactgtttg catttccagg ctgctagtgc 60  
 gggtttctat ctggacataa caaaagttat taagacaaaa caaagtaaga ggccagtgc 120  
 tttcaagaac tcctacacct gaaattatat cacctagaaa agcaaataga actgaaatag 180  
 tgaaatctca taaagcagaa agcaacttcc acagcagcac aaaatgggtca ctgtagaaat 240  
 aattgtgacc ataattcaac ttacaaagg taaaatccaa ttcattattaa tatcatttta 300  
 aactcactga aaatatttgg catgaaccaa ctgtcccaaa atatttggcg tgaggggtgcg 360  
 ggtgtgtcgc tgccgttcga cgtcactgcc attcctcgct gctgg 405

<210> 34598  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 34598

tgtaagtatt tgttggtata attcgctgt tccattttgc ttttattgtc tctagagggt 60  
 acttctctgt tgacatcttt tgttctgaat ggaattgcc taacagggtc gctgttactg 120  
 tctttgatat ttggtagctg acattgtgtt gtgggaggta attccgattg gattaactca 180  
 ccatccttca cttgccatt tgttatgaca tttgttgttg gatcacctat gatgtcttgt 240  
 ttccaagggt aatctatatc ctttctgatg gcataagcat gaaaccaatc aaagaaaacg 300  
 acatctatat ttgactctgt cgacaaattc gtataacttg tcttggattc gccttctgtc 360  
 tgtacccttg taatgttgga gaaaccatct cct 393

<210> 34599  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 34599

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 actaactaaa attcctttta aaattctaaa attttgaatt ccttttacta aaatatttaa 120  
 acagttactt ttaataaaaa agaatttaatt tccctataaa agatacatta cttagttaaa 180  
 ttatcctatc caaacacaca tttttaacaa gaaattgtag attgattgct ctacaattga 240  
 tgtatttaat taaactatga actgaggaag aattctattt cggaacttct gttatgtagt 300  
 tatgaatgat tattaaataa atgataggtg cacaagtgc aaatatgaga gtaaagttga 360  
 acattttttt taatctgctc caagacatgg ttctcacaat aatc 404

<210> 34600  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 34600

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 tataagaatc aaacttatat aatttcctac caactaaaca tgtgatgatt aaagcctatg 120  
 aataatattt taatttcttt attagataat aataataata ataaatatcc ttgaatacat 180  
 cgtctogaag ttgcatacat acgtagccac aaataaatgt tacatatgta aattatatca 240  
 cagtaattct aaagaataaa taatcttttt aaaaggacaa ttttgatata ttcatatatc 300  
 ttttaagtaga tataattttt aaaacataag atgattatag gtattttgct agatatcata 360  
 tagagataat gatataattaa agttgatgta acatatcctt gcctaagtga tcact 415

<210> 34601  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 34601

agcttgatt actactaatg tatgctaag ttggtggcag ggaagatgca agtcacgaat 60

gagttattgg tgaacaatag ctattgggct gaaagagtaa gcacggttgt gctttataat 120  
catatcttct aattgttagg gataactgcg taagtgcac ctagcttggtg ttgtgaatcg 180  
taaaaatgta tgccttgga aggacatggt tgatatttta tttttgttgg aagagtcata 240  
tagtaaaatt atgattatct agctactcat tttgtgttgt cactgtttta aataattgaa 300  
ttgcctttcc attcaatgcc attgttttgc actgggtttt attatccatt gctaattatc 360  
tgaagattat gacgtgggaa cttgccttga atctgtgcgg ctttgacgag aaacatattg 420  
tagcatat 428

<210> 34602  
<211> 403  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 34602

agtcacaaag agaataataa tttgtgacta tggcatgagn tncaaaaaat catccttcaa 60  
caaccatatt atcaatcatc tttgaatcat ctatctttta catcatcttt caacatcctt 120  
gaatctatct ttcaacatct ctcaatatct tctttcatct ctttcaaacac tttcaacaaa 180  
acttttcta tcatcttctct tcatctttct aaaagttttt tatcaaacact ttctcttcca 240  
agaaaagtgc tttgttaaaa aacttgtggt attcatcttt ttcatctctt tctccctttg 300  
ccaaaagaac aaaggactaa ccgcttgaat tattttgtgt ctctcttctc ccttacaaaa 360  
gattcaaagg attaacgcc ttagaattct tttgattctt ccc 403

<210> 34603  
<211> 351  
<212> DNA  
<213> Glycine max  
<400> 34603

tttcaagctt gccttgcccc ttgatatatt cgagggactc atgggcacta tgaatgacaa 60  
attccttggg ataaaggtag tgttgccatg ttttcaaagc ccgcactaag gcatacaact 120  
ccttatcata agttgaatag ttaagggttag gaccacttaa cttttcacta aaataagcaa 180  
ttggatggcc ttcttgcac aacacagccc caatcccaac atttgaagca tcacactcaa 240  
tttcaaaaga tttttgacaa gttggcaacg caagtatggg ggcattagtt agcttttgct 300



taagaacatt gaaagcttct tcttgtttct ctcccatgt gaaaccaaca t 351

<210> 34604  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34604

ntagctttgt cccaaggct tcatgtagac ttgtccttta tcgttaagng aacctcggat 60  
ccctatctaa tacaatacta gaaggaattc catgcaacct tactactccc ttgatgtaca 120  
actccactag cttctacatt ctatacttca tattcaccgg aataaaatga gcagatttgg 180  
tgagtcgac tactatgacc cacacaacat catgtccacg actagtcttg ggtaaactag 240  
atacaaaatc catagatatg ctctcccatt tccattccgg aatttccaat ggcttcaatt 300  
ctcctgatgg tcgctggtgc tcagccttag ccttttgaca tgtcaaacat cttgctacat 360  
attcagctac atctttcttc atgcccacgc caccaaaact tctcttcaaa tcttggtaca 420  
tcttagtcat t 431

<210> 34605  
<211> 327  
<212> DNA  
<213> Glycine max

<400> 34605  
gaatctgtac ttcctaagag ggagcgccac ccaactccacg tcattacaaa ctacctcatt 60  
tcttctctta tagcccttag ccgaatacac cttegatagg gtctctatct gacgcttaac 120  
cctctcatgc aacttggtta caaactctga cctacattac ccttctttat gtataaaata 180  
agtgtcgagt gggaggggaa tgatgtctac aggcgactag ggattgaacc catagacaac 240  
ctcaacacga gatagcttga tggttctatg aaccccccta tatgaggcga agtgtacatg 300  
acgaagatac tcatcccaag acttatg 327

<210> 34606  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 34606

tatcataatc gattacatag ctctttttga gacaattatt gattcttttag gagtctctac 60  
 tttaatcgat tacttctctc ttaaaatgtg cttcagaagt gatcacaact ttttaataaaa 120  
 atagaataag gtgtcgtaat ggggtgcaagc tatgtaattg attacatcaa gaatctaate 180  
 gattacattg ttcttgaaat ttttccagtt gttgggaaga acactttaat tgattgaaat 240  
 gataatataa tcgattactt cttccaaata atcgattaca ttgtatattt aattgattac 300  
 atgcggttat aactgttttc tctataaata gacaccttgt gttctgcctt ttaataacat 360  
 ctaacaactt ctgaatgtgt tagaattatg agctaacatt agtaaaac 408

<210> 34607

<211> 318

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34607

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 tcaccatttt aattattgat tagccttaat tgtcaaatta attatgcagc tttatcattt 120  
 gggcctactt gactaatttt gtgtttttta ttttaatttca ggagaaatat aagccattgg 180  
 gcttggacat gaagagagca gacaatttta ttttattaaa tcttatctta tccagatttt 240  
 atttcgtcca gattttattt catccaatct tatcttatct tgtccagatt ntattttatt 300  
 ccatttatgg gcttggac 318

<210> 34608

<211> 422

<212> DNA

<213> Glycine max

<400> 34608

gcttctacaa tctccccctt tttgatgatg acatcttctg aaatcaagaa acactcacac 60  
 actttttcct agtcgatcac tcacataaat tctccccctt tgtttttgaa tctatgctta 120  
 tcttaaaaat aagttgatta ctcatgtgaa ttcttgattt aatcccattt ctctccccct 180  
 ttggcatcaa caaaaagcca aagtgcgtat caaacttaag gtatacaaat ataacttaaa 240  
 catccataaa atgttcatga aaaaatatca accaaatcat gaagcaagaa gcaagaacca 300

cgaaatccat gaagcaaaca accatgaata gattaattat aaactccaca tggtaaata 360  
acatacttaa tatttggtcca cacataccat gcaaataagg aaatagtaaa ttgttcacat 420  
ac 422

<210> 34609  
<211> 570  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 34609

ccaccgcacc gcacgaacgg tagacggacg cgcccgataa cgacacacnc cncannnnna 60  
agagcgcnnn ntttgggcct gatacncctg aagcnaanc gancanggca cgcggggaac 120  
cnggagagcc gaccagcagg caggcaagct tgcaatgagg ccgcagaagc ngncgcagag 180  
gcacgacacg agccggcgga cacgaacgaa acacacccgc agcagacaca agagagagac 240  
caggagccga aggccaacac cgacacaaca cagcagggca accccaaccg aagctgacgc 300  
gacaccccg cgcaacacac gacaacgaca gaaggccgga gccagcagca agaccagca 360  
accaacgcag cccaacagca caagaaaagc cagccataac aggagccgag cacaggaagg 420  
ncgacgatac acacganaca cacaaccgaa gaagcaccga tggcgcccga cacagaaacc 480  
gagcgccgaa aacaccgaac gcatgcgccc gaccaacgag caaccagaag acgccgagaa 540  
aaactgaaac acaccccgga cgaacaaacn 570

<210> 34610  
<211> 342  
<212> DNA  
<213> Glycine max  
  
<400> 34610

agttttgagc ttaaattctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60  
ttaccctcgg aagcataata gaatagaacg gaaatttcca atcaaagaaa agagaaggaa 120  
tatttccaat gatagaggaa aaaagagaag aaaggaaatt cccaatcaaa gagtgggaga 180  
tagagataga aaagaaagaa tattcccaac caaagaatgg gagaaagtaa aaagggaagg 240  
aagctcctgg tcaaagaaac cagagaggtc tttggaccag ataatatctg aacagtacag 300

aatcgtcacc ttatgagcat aaaggaatga aagggaacca cg

342

<210> 34611  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 34611

tgtagaatgg ccccatatga tacatgtcag ggcttgTTTT ggtttatgga taaaagggat 60  
gccccacatt atttccatga cacaaatgca aaaatgacga tttggaaatt ttatgcaaaa 120  
ctgggttatgc atgcacctat gcggacactc aagtgtcaaa tttttatggt catgtgatgc 180  
tagggctcag gattcatttc ctctatttta gtcaacccaa cgtttccaaa atatgttctt 240  
ttatcaattt gtgcattaat ccgaatccat tttgcgcgtc tgggaaaatc ttcacagcat 300  
tcaaccttca ggtgtatata cactttttca ataactagtt atgatcagtg aatttttcca 360  
aagaaaagtt ggaagtcac tcttttcaaa agcatgttgg tttttcagct tgacaactta 420  
tttgttctt 429

<210> 34612  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34612

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taagcttttc ttaacacaaa aatgacatgc taatccctcc gatttagaat gaactcatgt 120  
acacttttaa tgtaaaatat ttatgcacat gcgtatgtgt agaatatccc actatttatg 180  
tcaacgtaca aggacatcca acacattcca actgccatac atatataatt ttgaaaagaa 240  
cacacattct catgctctan gcaactgcgtc anaactcaca cctaatacaca tcctanatat 300  
tttgctatca caaactacct acacatattt ganacatata tcatacaggc tntcattggt 360  
tcaactacat ttatttatat gcatattgga gagctaatta cgtcatgcac atacttgcac 420  
tc 422

<210> 34613  
<211> 419

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34613  
  
 nggattgatt cagtctaact agggatngag gggtagttat ntattctaga gcatagaaca 60  
 caaaagcatg attgattaga gaaacatctt tatatgcatt agctgggtctg ttagaaagac 120  
 ccaacatttc tacctactgc tgtcaatttt atttacttgc atttttacta tttttagccc 180  
 agacttagtt caatcctggt ttaaatcatc aaatatcaat gtttctttcg acaatgcctt 240  
 atttctgaat ttaaccttgt cttagactag ttccctgagt tcgatactca gattcatccg 300  
 ttttgatttt aaatacttga tgatccgatg cgctttccgg caaacgaaa ttacatcagt 360  
 tgttccttag aaattcgcaa caagagtgtg tagccaacca tatagaaaaa ccctaacac 419

<210> 34614  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34614  
  
 ccngctacct cgaaaccagt acgttggtgc atatatactg actcctcaag aaacccatat 60  
 agcaaagcat tgctcacatt aagctgatat agttcccacc catgggaaag agcaagagtg 120  
 atcacagcac gaattgagac aggccttgacc acaggacaca atgtctcatg aaagtcaaaa 180  
 ccatggactc gatgaaagcc cttagctacc aaccttgctt tgaactagtt gatggaacca 240  
 tcagcatttt cttttactca gaaaaccaac ttacacccaa tggcttgctt attacaaggt 300  
 acgggaacta agtcccaagt tctgatctca gcaaagcacc atactcttgc tgcattgcac 360  
 caaccaatcc gaatcttcta cggcctgttt aacattatcg ggtcccgatc gagcagcaat 420  
 aacn 424

<210> 34615  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34615

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atgatgaaga ggcagttcgg ctttgtaaag acagaaagaa gttcatcaga caagctgttg 120  
aacatagaac tcaatttgcc acgggacaca tagcatacat agaattctctt aaaagggttt 180  
cagctgcact tcgcaattac attgaaggcg atgagcctcg cgagttctca ttagacacag 240  
tcatcacccc acctttcacg cctgtgaaga ggaaaactgg ctcaggattc attcccatat 300  
cagcanaacc ctttgctaca acaggagcaa ttgagtttgg gatctgacca aactctactt 360  
tgaaagtgaa ttaccttagg cctggtggtg acccagcaat ttcagttgag gaaaggcctc 420  
aatccccgga 480

<210> 34616  
<211> 379  
<212> DNA  
<213> Glycine max  
<400> 34616

agtttccatt accaacacac gttgattcaa catcagttca atgctcaatg tcctctacaa 60  
ccgattcaat tattatcggg acatcttctg ctctttatgt tccattctac atctatatac 120  
atggattgcc catgggcttc atgtctcaaa gtgttggtcca cagtatcgag aagcatattg 180  
ggaaattcct tgagtacgat gtgaaaaata cttcgagtta ttggatgtca tacatgagac 240  
ttcatgtatt gctagatgct aagaagtcac tgatgaaacc ctcgaaacta cgaagccatg 300  
agaagagctc tctgaagtta tctcaagcat gaaacgcacg ccctttcgta tctttggtcc 360  
aatgggcaca atgacgata 379

<210> 34617  
<211> 423  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 34617

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acttatgaag atggacgccc tgtagaaggt atgggtgtag ggagaaagat aatagatagg 120  
gtgcaggaga catatcattc tgacttaaat ggtaaggact ttgcatatga tggggagaaa 180  
agtctgttta ctgttggtc tcttctctcaa aacaagcttg agtttgaagt tggtcttgag 240

gatgtcacct ctaacacgta gaagtaatta gagagcattt agttgttggt ttggctcttc 300  
 aaattggttt tcgtactatt gtttcaatag cctatgattt attttttgtc ttctatgaat 360  
 aatggcaatt gcagccctga tgggtctatgg gacaatgaga gtgactcaaa gaggatgcga 420  
 ccc 423

<210> 34618  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 34618  
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 ttccctgct ttcatttact ggaagatcaa acgtacttca tctctctctt attttgatta 120  
 aacattgtaa tctttatctt tttttatgtg actacaatgt acattacatt ctcatgatag 180  
 catatgtatg atacgacctc tattagttag ctaacaagtg taatttatta taattatgta 240  
 gaattcattt tttttgaagg ttccattggt tcttattcta aatacctatt cttattttat 300  
 aacatatatg gtagtagctg caacatataa attggcattg aatcttacga tatgcttctt 360  
 cccctaccaa ttattctttc agttagaaca atcactagta gttatcttct tgatttata 419

<210> 34619  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34619

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 gttctaattc aagatgtttt ctttgttgca tgggcataat gcaatcactc tatgtctagc 120  
 aatgatttta ttaagatgtc cctacctttg agttctacta aaaattatcc tctctcgagc 180  
 gactaatctc taaaactgat gcatataaaa ccttcaatgt atttctacta aggattaccc 240  
 tctttcaagc gccaaacccc taaagatgat gcaaggatga agcatataat acatttggtg 300  
 gcatttttagg cctgccaaagc cctaactaaa ggggttttagc ctttcattgt catgagagac 360  
 tcttacactt tanggggttg atatggatgg aagaagatgg atggatagag gaag 414

<210> 34620  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34620

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 cgggaaaaga ncttttcgag ttttttgaca cccctccag cgctctgctt gcctatgagt 120  
 ccatagtgcc ttcccttctc ggaacatgtc tgacaaactt cttgcaaagc cctagccaat 180  
 ccttacagat agttgcgcgc atcaaatttg tacgcctaac tctacattat gaattagggtt 240  
 ctcataaagc tgaacctatc gttttttaaa acgctataat gaccaacggc tatggtgacc 300  
 gacaacattg ctcgattctg ataacgacca aagcaagtcg ctaaccatgc gatgatagtg 360  
 ccagtgcgcg cctgagccca ccacttcctt ccacctaata tccaatagct acaactcaca 420  
 ataatgttgc ccactacagc tctaaaagca attatacaac tgcacttaac ccc 473

<210> 34621  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34621

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 tatctgatgc ccaatcaaca tcatagaaag catagagtgc catacgttgt gaaacagaag 180  
 cagggcgaag gaataaacca tgacaaatag tacccttgag atatcttaat atccttttga 240  
 ccacaacgca atgagaatcc aatgaattag ccatatactg acaaacctta ttaacatcat 300  
 acctaattctc acgtctagta tgggtagcat actggagggc acncactact ga 352

<210> 34622  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 34622



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 ctatgcttcc aacatagcaa gatcatgac taaaacaccg aggtgaaatt ggatttgctc 120  
 atttcagtca gagaagttaa gccattaaa attggcacat atgatacata agaattcagt 180  
 gaattgagaa catgtattac ataataaaat tcacataagt gtttcgagac ataaaataca 240  
 tgtcacacac ttgattcatt cagataacgg tcaatgtata ttaatgttct cctttgggtg 300  
 atacaccaac acataacata caaacataat gatgctaata aaaattctta acattatttg 360  
 gcaattaaat atgcaccaat tagtagtata tatgtccttt gggcttatac ataaaactaa 420  
 tgatacacac aaa 433

<210> 34623  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34623

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 aaaaagccca agaaaatgat ttcaagattg agtcaacaag ttcaagatca agattaattt 120  
 caaatttcat gagaagaaat caagaagatt caagaatcaa gagaagtttg atttcaagat 180  
 tcaagagaag atgaattcaa gattcaagag aagaaattaa gaagacttca cgctgattag 240  
 aaaaaaaga agaagacttc acaagggaag tattgaaaag atttttcaaa aaacaaacat 300  
 agcacagtn tgtttttcan aagagttttt ctcanaattt tctaagttac cagagttntt 360  
 actctctggt aatcgattac cagtttccta taatcgatta ccagtggcaa agtttgatat 420  
 caaaagc 427

<210> 34624  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 34624

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 tttgtccgca acagtggaga aatatgttga tgtataaact ggaaaggaag aaaatgctat 180

aacaaggaac gcttgatcat aaattatgga ccattctgct tttaatgggt ttcaacactt 240  
 caaaaagtac tttgtatcca catcttttac aacatttggt aaagattaca ttgtataaat 300  
 tccctcttct cttctctgct gttccttctg ccatacatta cagttcactt cgccaaattc 360  
 tcatgccaaag ttaatttggc accattactc caggtttggg agtaaaactga aatttcaatg 420  
 tct 423

<210> 34625  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34625

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 tctcttcttt tccagttttt cttggacttt ttgtatttag tctctctttt ttattcaaag 180  
 gatttagtat cctctccctg gttagtgggt gttgctccct tttgtcttta atgaaatttc 240  
 ttcttctata aaaattattt gttttgctta cttcctggca taggtatccc agtcatgacc 300  
 agagctcana cctgccaccc tttggatcca ctatcagctg ctgaaatata agtagctgta 360  
 gctacagttc gagctgctgn ngcaaccctt gaggtagatt tcttgattnt ctttcattga 420

<210> 34626  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 34626

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 aacttgtaaa cacagttttt cagtttgcta atttaaatta gtggacaatg atcttttcta 120  
 ttaactagat agtaacatta aaaacaaaat tagtacagca ttaaaaatag catggtgcaa 180  
 gtaatttatt caaatttgta atatgactgc catttttagtt gagacaacat tatcgtcaac 240  
 aagataatgt ttgtggcggc taactgacat ctctatatca ttaaactaat gcacctgcaa 300  
 tgttcacga atcaaattat atttgccata tcaattoget tagctactaa atgagccttg 360

atctacacgt ctgttccta attcgacgat ccttgagacc atcataatca taccgatta 419

<210> 34627  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34627

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 gtttctaaga atatttatag tgaaaataaa gatgcaaaat ttgacacact ttcaattaat 120  
 attttttcat atgtagaat tcccaaactct aatttaaagt taccctgtaa ccaaaaatct 180  
 gaacttatct gttaaaggat ccaaactctt cctatttggg caactactcg ttgggtcaat 240  
 tgagattntg agttgctatg agaatgaatt ttagtaact aacggatatt ntcattgaaa 300  
 ggaaaacaaa attttccata atgaacacat gatgttggaa gaccataaca aagtttccac 360  
 tcatctagat ctttgatg 378

<210> 34628  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34628

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 cttattctcc atgtatatcc ttcatgtct tgtgttttga tgctgtttag agtatattca 180  
 aaaaataaac cgattaaatc ttagatctac acttgttctt gcatttctat ggttcaaatt 240  
 ttatatatct actcttgaat catgtttttg tgttgatttt aggttcaatc attttccagt 300  
 cataatcttc ttgtactgaa cctttaaatc taaattntat tccaaaatat tgattataaa 360  
 aaaagcacan aaatctaagt gtaaactact taatctatgt tgtcttagag tcatgtntag 420  
 tcataataat 430

<210> 34629  
 <211> 434  
 <212> DNA

<213> Glycine max

<400> 34629

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agaaaaaacg acaataataa tatattgctt aatgtatttg atccagcttg cttctgttct 120  
tcttggcgat ctgtattctg tacagagatg atccatatta tatcactc tatatatttt 180  
tctatgatcc ttgatttaat gtgactgaaa gagaataatt gagtggaaaa gaacaacaaa 240  
agcattgaat tttagtcact tttactgaga caacgttatg aaatagctgc catatatggt 300  
ctccataatt gtgcttctgt atttttcttc ttcaatcatt atcaccaaatt cattatttgg 360  
tatctaggta ctctacaacg gaggaatcag tagatatacg tgatgttcta tcattaggtc 420  
tcattacgca tcat 434

<210> 34630

<211> 447

<212> DNA

<213> Glycine max

<400> 34630

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ttgaggcatt taattaatct aacgtatcag attttgagtt tcacacacaa caataattcc 180  
ttttactttg gatcacttgt tattgttgca cgcgtagctt tctcacagtg tgaagggtgat 240  
gaaactgggg tttagtagtc aatcttgttc ttaattgatt gtgtcaaaca ctcaatgtca 300  
tttcaatccc ccattctctc ccctagatt tgggcttgcc taaaacaaca ccaactcaaa 360  
cctaacacct gttcacgaaa aagatattcc aaattagggg aaggggcaat tgaaaagaga 420  
agggctaac ggtaaaatga tcaatga 447

<210> 34631

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34631

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cgctccttgt cacgggaagc cggaaggtcc atctcacctt ctttaattgta cacatggagc 120  
 actgcgcccc caaatgcgca agtaagaaga gataattttc cgggctctcg tgtccgtaaa 180  
 atgcattcat atcatgcac gcataagcat ctcttcataa catcataatg gacataatcct 240  
 gcatttgtcc ggtcatggca tcacatgca tatgcgttca acaaactttt tgggtctgcaa 300  
 aattgcatac catttgtttt catgtttgct catccttgcg tttcctctac aaaacataaa 360  
 aacatataat gtggggagcg tgaaacttca cactacattc ttagtttcat gt 412

<210> 34632  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 34632

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 tgtcatcatt ttttttctcc gtcattgagg tgccacttga gctgccaggc ctctccacct 120  
 ttgggcgtat ttttttgaaa gatctgtgcc ccttttttgc acatgttttg tagttgcatc 180  
 ctatccgaag acattatact aacactgcct aacgaaggca accactaggt ccttccaaga 240  
 atggactcgg gaaggttcca agttagtgtg ccaggtaaca gctaccctag taagactttc 300  
 ttggaaggaa tgtatcaaca attcctcatc ttttgcgtat gccccatct tccgataata 360  
 catctttaga tggttcttgg ggcaagtagt ccccttgtag ttgtcaaagt ccagcacctt 420  
 gaactt 426

<210> 34633  
 <211> 110  
 <212> DNA  
 <213> Glycine max

<400> 34633

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 ccatagtttc agaacgatac attcgtccaa accaagaccc tccttctggt 110

<210> 34634  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 34634

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aatgagtctt aactggatcc tacaaaatca acttataaga tgaggattat cttcacttat 180  
atattctact ttgactatat tactatgcga ggtaagatct ccaatgcagc caagaattaa 240  
acatcttaaa tgagaagctt gcatagctta cacatgtgta gaagattcga taacatgtga 300  
tactataggt ccaaccatta tagttacata gattgtggta ctattcgggtg cttgttacgg 360  
tacaggtttg gtacatgtac gcgaccttga caagatatgg tgcgtgggaa tatgcatgtc 420  
ggtacgt 427

<210> 34635

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34635

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attgcttgta aaagcaaccc aaaattatgt aagggtttga ttcttaaatt taacaaccca 180  
aaatttaaga atccaatcat acgacagttg tagaagttgc tctagcattg caattatgac 240  
aacaatgaaa ctcccctgac caaactctcg ggagatgctg taattatttt cgattagtta 300  
attacttata tgtctaatta atatgattaa tcacttatat aattaanaaa tattcaatat 360  
gtgatgttaa ggttatattt atcgagatan ttttaattaat ctttagttct tgtatcgatt 420  
tacaaagtta tt 432

<210> 34636

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34636

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 acagaaatca tataactttta aatgtttaat attcatttat attacatcaa ttttttttaa 180  
 aaaactaaca actaaattga ccgaaaatta catcaattaa cataaattgga gtgtgaatgt 240  
 gtacaaaatg aattaattgt aattagataa tataaattat tcaaataataa aatgcttcat 300  
 ataaattcgt gtatcattat ttttaggttt tcatagtctt aagtgttttt actattttaa 360  
 attattcatc attttcacct tatttttggt tactaattaa tatgtttata ttatatattt 420  
 cactcatcat ttttaattg 439

<210> 34637  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 34637  
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 cttattagtc aactatagtt caattatgta acaactaaat atatttatta tccccaagat 120  
 aatgaaaag atatcttttt agtcaaaaat taaataattc atccaaataa attctaactc 180  
 actattgcat ctggatcgta aagggttgaa ttcattgtac tctttaacat tgggtaattt 240  
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<210> 34638  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34638

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 ccccaatca agcattattt cttcttcttc ccccaaaaaa gtcattgcac agcccaaatac 120  
 tcccattttc aacacgaaac tcaaagtga gcaaaatttt gtaacaaatt acttctttca 180  
 atttgatatg acaatttagt tcatctaagt tacgagagca tgcataacaa aatttttact 240  
 gtcaaataca tccaacaatg tcatgcaatt ttggtcattn tttaacaaatt gaaaaaatag 300  
 atgttgggat aaatttatct cactttttac aaagagataa aattttattt ttttctaatt 360

taggaactca aatggcagcg cattacaaat ttaagaacta aattgagtat ttattctata 420  
attct 425

<210> 34639  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34639

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taacttgggg tctgtcttc atgattttta agtttaatgt gctaagttgt ttcaagtttg 120  
gtctttggca agtgtgtaca aagatattca tgaccgcta attaatagga aagattcaac 180  
acctatagga tatgaagaaa ctttttagcgt attgctaaat tgctgatttc ttaatatgat 240  
gaaagactaa ctcaatgatg tctactccaa tatcaatgat atagagtctt gggaaattga 300  
gggtttttgc ttaaaaaaat tcaaatactg aaagtnttat ttccttaata tcttggttct 360  
ataaagattc caataaacia gaagaacaga gacacttatt ttcaaataat tatattgtct 420  
cttacattga 430

<210> 34640  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 34640

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aattgataga gaaaaatcta aaatcataca tcttaggcaa ataaggcatg ctagcccca 120  
acattattgc attttgattc catctttaga cattcaaatt gttgtttatt tttctgtta 180  
tcttttcctt tgccttagtc taaatttcaa acttacaatt cggatatctt tttctcttt 240  
gtttctctc atttcttaat aattggattt gcatcactta agtacaacca aagtcctct 300  
ggatttaatt gttgaacttc aatttcaatc tttactactt gtgataaaat taggacactt 360  
gtcaatctat taacaagttt ttggcgttgt tgatggggac tttgggtttc gtacttggtt 420  
gttaca 426



# Defining the Problem

agctttgcta taattaattn tttggattaa atattgtcat tttttaaggg aacggattaa	60
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accacatacc tacatttcta taaatcaaag actaaagaaa gacaatctat tttggagtga	240
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aactt	425

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<223>      unsure at all n locations
<400>      34642
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acagagccct	gtcaatatca	aaatagtacc	aagtgactgt	caagtgtcaa	ttgcagagaa	180
gacatcaatg	tattaaaatc	agtgggtaaa	attcaaaaac	tattggggaa	gtgcatacgc	240
atactacttc	catgatccat	gattgtgatg	gtttccacat	gcacaacagt	aaaccatatg	300
atcaagagaa	acgcaattnt	gcggaaaaat	gtgtttataa	tggattcaag	ttaaacaatca	360
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<223>        unsure at all n locations

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 acttttgaca gaattacaat ttttgaaga aggagacctc agtcggccta cggcgggctg 180  
 ccacgacatg gaaaattttt ttctaccccg aatacatata gagtaatagt gattctgata 240  
 accggagcaa aagttatggc cgtttgcagt tatgacaaaa atcaaatntg ctacattntg 300  
 ggaactttca aatctgacca aactaagggc tcannactat tttcccacan aatatggatc 360  
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 aaatcccaat taattca 437

<210> 34644  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 34644  
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 tgggtatttag ttcaactgtg atggacatat tggctgtgga tgtggtgcat atcctcagat 180  
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 tgcattatta t 431

<210> 34645  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34645

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agaacaaatg cacattcata gacaagattc taaaggaaaa agagaaggaa gcaatgaaga 180  
 tcctccagta gatgtcaaag caaataatga tcttccaaga gaatggaaag cttanggaga 240  
 tcatccctt gacaacatta ttggtgatac ctcanaaggg gtaacaacta gacactctct 300  
 caaatattta tccaataaca tggcttttgt atctacgac gaacctaana atctanatga 360  
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<210> 34646  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 34646

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<210> 34647  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 34647

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<210> 34648  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 34648

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 tcttagccaa aaggccgaga aaggcatgag ttgcaatgtc ttgagaggct ctctttatac 240  
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<210> 34649  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 agttaataa aattctagtc ttcttgattt tctgtttttc atgggtattt tagtgagttg 180  
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<210> 34650  
 <211> 422  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34650

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taatagggta aaatacgttt tcagtcccca actcccggtta cttttactag ttttagtcct 120  
caaacttcaa ctttgatcaa tttggtctcc tgaactttac taacgggttaa aaccgtggga 180  
caaaaccac tgttttcttc taagagggac cgaattaatc aaagttaaaa tacggagtct 240  
aataccaact tttaccgaaa ataatacagg cactaaaaac atattttaac tcaagtaaca 300  
agtaaccata gaatgaacga gacaagatac ttgtgagcgc gggcatcgac gccgcggttt 360  
ttgacggaga atttgtcttt gggggcgatt ntgttcttgg cgcgttggtta ctcggcacgc 420  
gg 422

<210> 34651

<211> 416

<212> DNA

<213> Glycine max

<400> 34651

agcttggttcg cacatcgttt gcggtgatga tatccactcg acaaggtttg aagtagagga 60  
gaccttcaat cctataacgc aacgtggcgg acgaaagtgg gcagttaact tgaatggcca 120  
ttattgtcaa tgcggaaggt attctgcact tcaactatcca tgttcacaca ttattgcagt 180  
ttgtgggttac gtgagcatga actactacca atatatagat gttgtttaca cgaatgagaa 240  
catcttataa gcatactccg cacagtgggtg gcctcttggg aatgaagcgg caattcctcc 300  
ttctgatgag gcatggacac taatccctga cccaactaca attcgtgcga aaggtcggcc 360  
aaaatcaaca aggataagga atgggatgga ttgtgtcgaa ccatctgacc accgac 416

<210> 34652

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34652

ntagccttag gttgttccat gttgctgctc cccctatctc taacaataaa ttcaaccatt 60

22" 20" 18" 16" 14" 12" 10" 8" 6" 4" 2" 0" 2" 4" 6" 8" 10" 12" 14" 16" 18" 20" 22"

<400> . 34653

<210>	34654
<211>	193
<212>	DNA
<213>	Glycine max

<400>            34654

<210> 34655

<211> 366  
 <212> DNA  
 <213> Glycine max

<400> 34655

agctttgaat gttctatcta catatgatgt aacttgaaat caaggaatat tatttatttt 60  
 tattaacttt tctattcaat ctcattgttg agatacaact attgtcaacg gtggagaaca 120  
 tctatttagt agtacattgt tctgggattt gtcaacatca gcccttacga gttagaactg 180  
 acttatgcaa ctaaaatcag aatacttttg ttgaactcat taattatata tataatgaag 240  
 gccttatggc atttggggta ttaccatgac tgggtatttg ctatttattg cttgggtggc 300  
 cgatcttata aatgataggt agaagtctca tcttcgtgtg cccaaattgt gtatgtggca 360  
 ttctca 366

<210> 34656  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34656

nttagtatgt ttaagattnt atttcaagac aattgataat gctatatctg aaaataataa 60  
 atcacttttg ttaattaaca tgaaaaatgt atcgatatgg tcaaagtga aaattacatt 120  
 tttaaagatg cgtttttcac tttaaaacga ttgaaccctt tctttctttc tttctttttt 180  
 gttaaagatg acagattcaa cggccgaaac aatagacata aactttaaaa caattatata 240  
 attatgattg ttttgatat atcaagctca aacaatttgt agtggctttt cttttataga 300  
 agacccttcc aaaagagaaa caaaggatct acatatgtca aagttaagtt ggagaagaag 360  
 ttactttcc caaattgggg gtaaagattt agtatatgtg accgacacta tg 412

<210> 34657  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34657

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tagtttgtca gattgattgt gaaggaatgc attaaccgta tcccgggtgag agtgtgatcc 120  
 ttanattntg agaganacga ctatcattta gtactgattn ttgcgtgaat ctttcaagta 180  
 tggactagat gcatganatt gaggatgatg aaggccatgt ttgattgtga tagccactta 240  
 gccaaaaagc tgaccatgtg cttgaatgaa ttatcccttg taccaggtt gagttgaatg 300  
 aattattgat ttgatgaacc ctgagcctat atagtgttat ctc 343

<210> 34658  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 34658  
 tcttagtttc agatgatgca catgagtttg tagctacctc atgcactcct ctaatgacta 60  
 tagcatcatt tttggcgcta aactggtggg agttggaagc catcttctca attaaattcc 120  
 tggcttcagc aggggtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
 tctccatggt attgagtcct tcataaaaat attggagaag aagctgctca caaatctggt 240  
 ggtgaaggca actggtgcat aattttttta atctctccca atattcatat aggctttctc 300  
 cactgagttg cctaatagct aaaatatcct ttctgatggc cgtgggtcta gaagcacgga 360  
 aaagtttttc taagaatact ctcttgaggc atcccagctc gtgatgga 408

<210> 34659  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34659

agcttcaaca tcagaccact tccaggggtgc tggaactact tcacatggac ttgatggggc 60  
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
 ccagatttac ctngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180  
 agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatt aggagtgacc 240  
 atggcagaga gtttgaaaac agcaagttta ctgaattctg cacatctgaa ggcactctc 300  
 atgagttctc tgcagccatt acaccacaac aaaatggcat agttganagg aaaaatagga 360  
 ctttganga agctgctang gtcagtcttc atgccanaga acttcctat aatctctggg 420



ctgaagccat gaacacagca t

441

<210> 34660  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 34660

tgtaatcgat tacacatata ctgtaatcga ttaccagagc agattttcag aaaatattct 60  
caacagtcac atcttttatg tggttcttga atggctatca aaggcctata tatatgtgac 120  
ttaagacacg aatttgctaa gagtttttca gaacaaaaag gtcttatact cttaaaaagc 180  
aaatcgtttt atcctcttac aaattccttg gccaaattac ttgtgattca ataaggaatt 240  
atttgagtac tcaaattggt caatctatct ctttcaagag agattttctt ttctcttctt 300  
cttcattctg aaaagggatt aagagaccga gggctctctg ttgtgaaaga attctaaaca 360  
caaaggaagg gttgtccttg tgtgtttaga acttgtaaaa ggaatttaca agatagtgga 420  
actctcaagc 430

<210> 34661  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34661

agcttgtggt gtgtgatggt tccttcaagg agattttctg ctttgatagt cttaatgtgg 60  
atgaggctgg actcctgtta cagctcanag tcttatgctt ggactccctt ccagagcttg 120  
tttccattgg gttagagaac tcttgattc agcccttact gggaaatcta gaaaccttgg 180  
aagtaatagg ttgttctagt ttaaaagact tgttcacatc ctcaacagca agaagtttga 240  
ctcgactcan aagaatggag ataaaaaggt gtgattcaat tgaagagata gtctctaagg 300  
aggggggatga atcacatgag aatgaaataa tatttccgca actcaattgt ttgaaacttg 360  
aatattttacg aaagctgaga agcttctata aaggaagttt attaagtttc ccatcattgg 420  
a 421

<210> 34662

<211> 377  
 <212> DNA  
 <213> Glycine max

<400> 34662

atactcaagc tgctgagctc tgataattct ttaagtttca aacaattgag atgctgaaat 60  
 attatctcat tctcgtgatt catcccccttc cttagacact atctcttcaa tttaatcaca 120  
 ccaacttata tcaattgttt tgagttgacc caaacttttg ggtgttgagg atgtgaacaa 180  
 atatagcagt gttgcaattt tttacttcca aaaatgtcaa attcgagaag ggcactgtgc 240  
 atggttccaa attaggcaac actccgcttt tatgaaaatt cgcagcatta ttcttcgaat 300  
 aatacaccac aacctattca taaatgctct cattctattt catcccccttg gttaaagatg 360  
 atggaacaca agactta 377

<210> 34663  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34663

agcttggact catgagtggg aagttgaggt ctaagtggat tggtcctttt gttgttacta 60  
 atgtttttcc ttatggtaca gttgagatca aaagtgactc cacaacaag agtttcaagg 120  
 tcaatggaca ccaacttaag ccattcctca caaacccttc tttagtggac gtagtggagg 180  
 aagagacttc cttactccac cctactattc ctccaccatg acttanggag tttttctttg 240  
 cctatctcct tctttacttt tattacantt tgccgattct atttgatngg ttaattgctt 300  
 ttaatctttt aattacgcta cattg 325

<210> 34664  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 34664

tgtaggcctt ggatcttctt catcaatgga gtcctttgct tcttgaagat caatggcagc 60  
 agaatggaga aggaggaaag ctgattggag acgccacttc aaggagaaga tgagtcaaga 120  
 acaagctcac aaccatagga agccatggat aagagcttta aggtagaaga tgagtggagg 180

gagaaggaga gaaggaacac aaaattttat gtcccaaagt aggtcagaac tttgaagtgt 240  
aattcccaaa tgatcaaagt tgaaaaacta cacacataag acctctatct atagcttaag 300  
tgtcacacaa aattggaggg aaatttgaat tctattcaaa tttcacttga atttgaattt 360  
gaatttgtgg agccaaattt ggagccaaaa tttcactaat tatga 405

<210> 34665  
<211> 423  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 34665

agcttaattc tattctctnt ntttttttta attntgacat ctacgaaatt gtgatgtcaa 60  
aatatttgta aatggaaaat cacttatcac aaatgtatga ggactaaaaa tatatacaat 120  
tccatgtaat attttaaaaa atattaatat aaatattgta cgtatacagc tcaatgactc 180  
gactaataca acctgaattt atttgaatta acaacaaatt tatttgactc aactaataca 240  
acctcaattt caaaagacca atctaaactc actccgcagc aaaacaaata acatgattcc 300  
cacgcataatg tgatagcgct tgtgttctca ccaatccacc aaatgtgctc ccaccagctc 360  
acttcctggc atgtaataga aatcatgaaa atgtttaana tcattccgtg taaaataata 420  
aaa 423

<210> 34666  
<211> 395  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 34666

tattattggt tggagtttaa aacctgaaac tcatgagagg tagtaagaga agaggaagca 60  
tgcgatgate atgatgatgg gccttaccgt gggccttgga ctcatcgctg gccccaccaa 120  
cggagtacct cgcgtaacac ttcccagaaa acatgtcacc gtaatccgct gtgcgcgaat 180  
cgctcttcag gcgcgagatc gcctccgcca cgcagtcctg gcaactcccc tagctcaagt 240  
cgccggtgca ctgcgccacg ccgtgtaccc caccggaccc accgacgcga aagttccac 300  
cggcgggcgc gagtcggcg agcacggcgt cgcggctccc catggcgctc gngttgtacc 360

cgaccgacgg cccgcacttc ttcagcacca ccgtc

395

<210> 34667  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34667

tctntgact ttttaataaat tntcttttagt agatcttagt ttttttttta aacggtggct 60  
tcagtttttt atacattttt ttctttttat ccttaaacad ttatcaaatt ttctgattat 120  
tttaaaaata aattatgatt ctttctgtta ttttatattt ttttaataatt tccacaacta 180  
ataatttaat aaaaaattac attttcaatt tccagcttaa ctttctcact tctagctaatt 240  
tttataaaaa aaataacaag aatgaaactg aggacaatga aaaagtcccg tgtaaccaat 300  
caatttgaat aattaattaa agaattgaat taatagaaaa ttgaagaatt taaataactg 360  
tattcattta caagctacaa cagtaaaaaa gaatgaacac catttttgcg aatgactcac 420  
ttttct 426

<210> 34668  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34668

gggacagaat ctcccatgct actatgaata tctccacctt attaagcaac acctgccact 60  
tgagcaaaat tggctctagt gtaaaacacc taacattaga actttgggtc taccaatatt 120  
tattattaat tttttaaaagt aaaaaatatc acacatgtta attaaaagac cttacatatt 180  
attattctct ttaaagtaaa aaaatatatt ttaattttta ttctacgtgt cattttctat 240  
tgcaccgaca cttcacctga gagtacagat ttactacga gaatagctcc aagtatttgc 300  
attgtagcat cactaacaac atcgtgtcca tttgggtgcag cacacaagta ttcacaacta 360  
ttcttcatgt ccggaattag tgatctgac aaataactaa tcaa 404

<210> 34669  
<211> 273

<212> DNA  
<213> Glycine max

<400> 34669

agctctatct ttaatcaacc acacatggcc cgagccataa tcgacgacaa aaaatgaatc 60  
acaagccaat gaagccaccc ttctggacac acacgcctga ttcattgagca tatcacacat 120  
tcacacgatt caacgaagag tgagagtgtg agtcagaggt tctacctatc ttattaccat 180  
tgataagaga gccttgctcc acttatacat tgattgtctg cctacaaata cactctccat 240  
gctctgaatg gatgcacatg ttttaataatc tta 273

<210> 34670  
<211> 483  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34670

tcctttgacc ccttagaanc gctatagatt ccgtgacact atagaatgct ctagctcgta 60  
cgcgcggtat cttcgacaca aaggattact ccgtttcctg cagataaaag ggctctgagc 120  
atgtcgacct atgaaagtct attaactaaa cgtccgtgtg gaaaagaatg agcggcaacc 180  
atttctcgag agcttccgac gattagattg caaccttttc gtctaataag acgctcgagc 240  
ctaagatgcc aattgaaccc tttttacaac ttgaacttct cctaacttct gatgtttatt 300  
ttetaaaccc tcaacatatt atacgcccgc catctatacc cggattgtgc ctttagtgcg 360  
acacactaat tgctgtgaaa ttgaagtcca atggcgctcat tcttgactcc tacattgggc 420  
catgagacca ctctctgact tgacttccct tattattata gggattttat aatggtcagc 480  
ccg 483

<210> 34671  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34671

agcttgtgca aatcaaatca ctctacatt tcattcttag catgcatctt ctttctttac 60  
ccactcctca cgtttggttt tttagggaaa aacaccataa ctaaaccgcg cgcaagggat 120

ccctatcgca ccagatccaa atctagaacg atgggtgatc aagaggagac gcaggaacag 180  
atgaaagccg acatgtcggc tctgaaagaa caaatggcct ccatgatgga ggccatgtta 240  
agtatgaagc agctcataga gaagaacgcg gccaccgccc ccgctgccag ttcggctgcc 300  
gaagcagacc cgactctctt ggcaactacg caccatcctc cctcanacat aataggacgg 360  
ngaagggaca cactggggca cgatggcagc cctcacctgg gatacaa 407

<210> 34672  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 34672

tcagcttgag ggtagtgttg aaaatcagaa ttaatattct gattctatta ataattgtaa 60  
tttatagga cattatattt gatttagagg aaacaaaata tcctctattt atgtaccact 120  
aatgtaatta tcctatataa acaagcattt gttgtgtact ctgatacacg gttttcactc 180  
tagtatccct ctttattttc tctcatttta cagatatgat ttgatcacga taaatagga 240  
aatttctcag ctgataatta aggattatac acattattag tggttatgat tccttatatt 300  
gtactcttga ttcattataa atcagaataa catgtgcaac acaactacat aattacagta 360  
aataacattg ttatattgag taatattctg agtgctgacc acaactacat aagtgc 416

<210> 34673  
<211> 149  
<212> DNA  
<213> Glycine max

<400> 34673

agcttccatc atagtggaat cagagcacia gaacttcaag taggtgcttc ttaaaccctc 60  
attaaatttt tttctttaac ctctcttcca ttgggtggttc ctcatTTTTT ttcattggatc 120  
tcctcacatg gcctgggtcta aatgggtggt 149

<210> 34674  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 34674

tgaatcggac ctcaagtgtga aaagttatga ccatttgaat ttctcgagag ctttcgttgt 60  
tcaatgtcga gcatctcgac atattatgcg ctggaatcag acatccgtgt gaaaagttat 120  
gaccatttga atttctcgag agcttccgat gtttaatttc gagcctctcg acatattatg 180  
cgcccgaatc ggacatccgt gtgaaaagtt atgaacattt gaatttctcg agagcttccg 240  
atgttgaatt tcgagcctct cgacatatta tgcgcccga tgggacatcc gtgtgaaaag 300  
ttatgaccat ttgaatttct cgagagcttc cgatgtttaa tttcgagcga ctcgatatat 360  
ta 362

<210> 34675  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34675

agcttgtggt tatgaaattt acgatcctcc cactcttcgg tctcttctt cagctcgatc 60  
caaggacaag gtttttctct tcttttttaa attttgttct ctctttgttt cttgcttctc 120  
aaaagaatat ttaaaaagga gacttgctat tttgttctt tgttttaagt ttcacattat 180  
ggtgataatt tttttatctt ctgaaacctt cattcagggt gtgggtttga ggggtgcatt 240  
gcactgcaag gcctgccaag ganaagttag aaagcatatt tcaaaaatgg aagggtgagtc 300  
tgcttaatca atacatagtc ttggagtctc aaaatgagag tctggatata attagataaa 360  
cattggcagt aataatacta attctcatgt tcttgagcat tntttntaat ctttntct 418

<210> 34676  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34676

acactactag aaactctagc gtactctggc actcaagact tgtatagatc tctctctctc 60  
tcttcacctt atattggttt ttttacagaa aatatgaaag aataatgctc tgtgggtaat 120  
ctctacaatt ttctacaaaa ctactatttg tctttattta caagttgtaa gatttaactt 180  
tgtactgctc tcagttagct ccgccactcc ttgtaccaa gttaattggg ttttaatagt 240

ataatttagt attttttggc tgcgaaaaaa aatttgtacg atttctgcat tcctattgac 300  
 ataatccgat ttgggttaaac ttattgattg aaataaatat ttattggaat caaataggta 360  
 gtgcatgcat ttgtatgtga gttggacaga tcatgcccac ancaatcnat attggtttta 420  
 ttntatcttc tggatcaaaa atc 443

<210> 34677  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34677

agctgtgtaa gatgttttaa ggagttaatc ctcagccaaa cctgtgcaac ctcatttaaa 60  
 gaattctttt atcatcctat ggactaagtt cattcttctt gaatntcttg attcttgact 120  
 tggatcaaac ttgaatagcg ttcattcttg gcatcatcaa aacttcatat aacatattgt 180  
 tctacaatta aaggtagtgt cttgggtggg taacatctct aagcaatctc cacatgaaat 240  
 gcttaacttt tggagggatg tgaagcttcc caagaagatt ccaattacct gagattttga 300  
 attggtcacg agccaaacat tgcttcgtaa gatgatatng ttgtcttaca gagtaatttg 360  
 catgtttgct gattntctaa gtaagtacgt catc 394

<210> 34678  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34678

ntgngactat tcacacaatt taacaagaaa caatgaagga tcaactgtga aaattaattg 60  
 cattcccata cctagatctc cttctaaatt ccaccgaatt tatatatgtt taaatgcatg 120  
 gaagcaagga ttcaagacta gctgtggatc ttttattggg cttgatgggt gttttttgaa 180  
 aggctactat ggtgatcatt tgcttgcagc agcggggacaa gatgcaaaca atgcattttt 240  
 tgtgattgct tatgcggtag taaatgttga agataaagat aactggaagt ggttcctcac 300  
 attgttacat gaagaccttg gagactgcaa gcaatatggc tgaaatttta tgttagacat 360  
 ccaaaaagtg caattcaatt gttttgcttt gatcaattca tatatagaat gttgtaattn 420



tgattgcctg catgcata

438

<210> 34679  
<211> 423  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 34679

agctctanaa tttgaattat aacgttcaaa aactgctggt aatcgattac catatatgtg 60  
taatcgatta cacagtgcac attttgaatt caaatTTTaa tagctgttgt aaatcagttt 120  
tgGCCattgg taatcgatta catcctctgg taatcgatta ccagagagta aatctcttga 180  
aaaagacttt ntttaactta natttcttgg ccaaaccctt tgctacttca attggaattc 240  
ccttcttatt taatgtaatc ttctaagac tctagatact ggcttgatca tccatcttga 300  
atatctttga tttctttgtc ttgaataana ctttgagaaa catgtaatcc tttggcatca 360  
tcanaacatt aagcttgta ccaacaaaag tctgaagacc catcgaactt gtcaaaagct 420  
ttc 423

<210> 34680  
<211> 431  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 34680

tcggaagaaa gtgatgaagt acaagcccta naggcagagc ttgaaagagc ctgnntagtc 60  
gaagagaagt tcaagtccat agccatcaaa gtctgaaaaa agtatgatga actaagggat 120  
gtcaatatgg ccaccgatga agccttgga tgagaaacca agaaggcccg aaaggaagaa 180  
cacgacaaa gcaaagtttt gaggggcttt atagggcagc aatagtgagc tcaagctccg 240  
aagaggtgaa aggaatcatc acgggtcaaa ggcattgatc tgaaggacga gctaaagggt 300  
tgcttatgt cgaaaagaaa tttgttcaa cagttaagcg agactgaagg gaatatgtgg 360  
gccatcatcg ataagtcaa agagaagcta aatctagcgg cgactcacga gcaaaggcta 420  
gaggatgagt a 431

<210> 34681  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<400> 34681

cactcgaccc gggatcctta agcacctgca gctgcagctt gctctatagt gcctggacgt 60  
 ttgtatgttg gaagctgtaa tcagcgaggg atggaaaata aaagtgtaaa taaattctaa 120  
 gtatgacaat agattacctt ataatgccaa caattttgtc tcaagtgact caaatcacta 180  
 aatggacata gttagtggac atccaaaagt ccatacttat tactaagaaa caaattgtta 240  
 tgatactttt ttactatcg gattatgaaa atttcaagat tctaaagttc aatatgtcat 300  
 ataactcaca actaacataa ggatgtcttc cgtcttcctt attactatat tagtagtacc 360  
 ttatgatgat tgtagcaagg tgaagctgat ggaagtcgat ctacatcttt gccttcaatt 420  
 ggttgccaaa gaggaacatc acatgcaacc tgtgtaacaa atagacat 468

<210> 34682  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34682

tgcgccact aggattggc tagtatagtg gtggaagaat ttggatgggt agcacaattt 60  
 tttaagttca aattaatctt gttgctgtta ttatatacta aaataattat tctaaccatg 120  
 cttgcattgg ttcaaaactc aaaggcattg tttgcgttaa agaaaaaaaa atacattgct 180  
 ttgtggtata atataatcaa ctatatattg ctgccatggt tgaatcagcc ttgatttcaa 240  
 ttaatctttc ggctgacaaa gcaaaacgct tatactgcat gccaaatatt ttaatttgct 300  
 gtttatgcca atgtacttaa ttgcgtattg tgataatagn ttgttttctt gtgtcaatat 360  
 ttaatcagta tcattctaaa aagttataaa aaaatcgatt aatataacga ataaggagaa 420  
 attacttaat tat 433

<210> 34683  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
 <400>        34683

```

ttgcttagtg tacttattgg tgagagaagc ttggctgttg gatagatgag cgattgcgtc   60
ctccagtcta tccgctcgtag tcttttttggg tgcattggta accatggcga tgggtgacggc  120
agcatgttgg actagtgtta gcaacgagga agagaagatg attgccttag ttcaaggcaa  180
ggcacctcct gcgaatgggt tgatcgaaac aagtattttg catgctttta ttcattgtca  240
tgcagtatct tatatactgc gagttattac attcataaca acccttaacc gatttaacta  300
actctagcag agtaactaac ttctaatagc ctcaactaac tacacgtgct attanttaac  360
tacctacagg tgctctttgg ctacatcgtg cgtgcactat tagaaaatat attntntaca  420
ttggttat                                     428
  
```

<210>        34684  
 <211>        380  
 <212>        DNA  
 <213>        Glycine max

<400>        34684

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cgattgggga tagctcttga tgaccagcct tgcagcaatt cagattgtct atatcttcat   60
gagattggct ctcaagagga tagtttcaca aaatatgaaa taatttcagc atacactatg  120
tatttttcta atcttaaatg agctttcatg caaagcctgt tatgattctg ttgaaagata  180
gaaactgttg aatgtttctt gtcttggtg catgctagtc ctggatgcaa agctgaggct  240
aaaatattac tttcatgcaa ttggcaaact tttttttccc tatagttagt taaaggctgc  300
atgtattttt taaattgatt cacatgggtt ttgttggcag ttgatacatg attggaccat  360
tcattttccc tctattctat                                     380
  
```

<210>        34685  
 <211>        410  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        34685

```

agcttccatc acccgtggta gtcctcattt gtttcgtgta cttttattct cgtttcattt   60
actttccgta cccctttttg acgtgcttca atcatttact taagtcattt tctcgccata  120
  
```



[illegible]

tgcttgtgga gcttctatgg aggctggatt tttgagcttc aatgaggtcc ttcaatgggtg	60
attttccacc atggagatgt agcggaaagac aaaggagaaa aggtgagagg aggtgccatc	120
cactagggaa taagccatgg aagaaagagc ttcgccatca agagagtgcc ttggataaca	180
agcttggaga gggtgcttca atgaaggaaa agaaagagag agagagaaaag atagagggggg	240
gggggggggg	249

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<223>      unsure at all n locations
<400>      34689
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agcttataat aatggtgaat gacaatgtaa actcctaggg gggggggggg naanccaaca	60
cccaaccac ctttgattac acaatttaat agcagtcaa atcatctttg gccttcgac	120
atcaattact tactctgtga ttccattacc agagagctta tctctagaaa aagactttta	180
ttaactaaaa tatattgttc atacctttag ctactccaat tggacttccc ttactatata	240
atgtaatctt gctaagactc tatatactgc acttatcatg cctcctgaat atctataatt	300
tctttgtctt	310

```
<223>      unsure at all n locations
<400>      34690
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ntgaagaaac aagatacaaa tcatctatgt gaatccttct ttcttgtaaa gctttctata	60
aattcttata aagatacaaa gttctcaaaa caccttgcac accttgagag aaaagactaa	120
aagtgctaag tgatataatat ccatttggtta aaagatcata ctctagtttag tgagcaatct	180
tccaacaaat cttgttggtt tgtttagagt caacaaggac ttggtgggat aaagaatatt	240

gggtttaagt caagcctagg ataaagcttg caagtgtatg taagagctag aagtaacaat 300  
 gaacaatact tgtaactttg ataagttagt aaaaacttgg tgggtgctaa gaattggatg. 360  
 caatcttgag gttgagacaa actaatataa atcattttgtg tgctatctta ctttaattgac 420

<210> 34691  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34691

agcttctata taagctgaac cttntatca ataaacacaa gttgagtttt attcagaaaa 60  
 ttagagttta tctcttttat cttagtgaaga gtgattctcc taaattcttg agtgattcaa 120  
 gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct tgcaggaaag 180  
 agtgattggt tcttctcttt catcttcacc cttgttattt gaaaccacaa ttccagaaaa 240  
 tccacctctg cccagaatta tctcgtggcc ataactcctg ttttacgcac tcaaattaag 300  
 tgattcttga gcttaaattg aatttcaaaa caagaccttt ttcacctcgt ttagaatcac 360  
 ctcatttgga gccctgtagc ttcagttatt gccatttcta tatttct 407

<210> 34692  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34692

ntacaacaga ttntagtaat gaccactaa cctagaatta aaataactta atgccattaa 60  
 ccttggaat taaaaaaaa acttaatggc tgagtgtaac taaaattgtg gcaacaaaa 120  
 gtcaccccca acagccaaca agtcagccac catttggctt cccaaaaggc tgatgcctag 180  
 gttgccaatt gggcccttat tacaacttga actaaacctt ctaaaaagcc cttttagtgt 240  
 attaacccaa aacatatttt tggtcagcca actttacaag gattgggcca ttatttagac 300  
 aaactaaaca ctctaaaatt gagacaaagt ggtgtcattt agtccttctc catttgggcc 360  
 atgatacaac tcacaacctt ggacttttct ccttgaaact tgggcttgta ttcaaatagt 420  
 atggacaaca cttg 434

<210> 34693  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34693

agcttagctg tagcatttag taaaaaaaaa aaaagttggg gacagtgtgt ttcttttatc 60  
 tgtcaacttt ctcccgtttt ctcaattaaa atggggttaa tgatgacca cgttatggaa 120  
 acaaattatt gttctcacat aaattttgta tccattcgct taatcaacaa catcatcgct 180  
 aaagagctta nattggtggg catcaagaac caatttcctt atagaagaga atgcgcccac 240  
 tattccaaca cccgtgaaga ccaccataat tgagggtgta atccaataag tgaaggatga 300  
 ttttgagggc ttgtatgtca tgttgtagat aagcataggc agaacgaaat ccanagggat 360  
 gaaaccaatg gcaccaacca caccgttgat gtctccaaaa aatggcagca tagctgccac 420  
 a 421

<210> 34694  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34694

tatattacat actatcatgt caatgttaaa caaggcattt actgttgctt tgaaagagca 60  
 gatcaccata tttaaagttg tatcaattgg tatttagaaa aattactgat aaaagagtta 120  
 ccaaagttgc aacaccatga ccagccagtg ctccagctat gactccaagg ggagaagaag 180  
 ctgctgcaat ggctgaatag tatggaaaaa acagttcatg ataaaggtgg tgagttcagt 240  
 gcatgacaag aagcaagata gcatgtcttg gtatttgaaa caaatgaaaa gtcaacaaga 300  
 aaattatata aactgaaact gtattgatcc aaatcaattg gcactcaact cttttaacgc 360  
 caagcatata aattagcttc aag 383

<210> 34695  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34695

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 ggggttgggtt tggagggtc cacttgtatt aaatttcgtc ttgatctttt ccatccatac 120  
 ttcattgactc tttcatccac atgtttgaat gctcatgaca aattaagatt ggtggataac 180  
 caacaaaaca cccttgttat tatcaccaat tcatcatcac catcgttcac aaaaaacttg 240  
 tgttttagtga gatcaatttg tagcacagct cattggcccc ctattagctt aaattttgta 300  
 tagaaacaaa gaaataattn tcaaacaata aaacaacttt tgtcttcttt cattttttaa 360  
 gaatatntc aaatgtgcca aatagttttt tttaaaagga taagatgagt aaaaagt 417

<210> 34696  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34696

tgtagaatgg ctagacatga tacatgtcag ggcttggttt ggttcaagga taaaagggat 60  
 gccccacatt atttccatga cacaaatgca aaaatgacga tttggaaatt ttatgcaaaa 120  
 ttgggttatgc atagcannta tgcggacact caagtgtcaa atttttatgg tcatgtgatg 180  
 ctagggtcga ggattcattt cctctatttt agtcaaccca acgtttccaa aatatgttct 240  
 tttatcaatt tgtgcattca tccgagtcca ttttggcggt ctgggaaaat cttcacagca 300  
 ttcacccttc aggtgtatac acattnnnnc cgcggctagt tgtgagcagt gaaggggtgn 360  
 nagaaaagtt ggaagtcac tcttttcaaa agcatgttgg cttttcagct tgacaactt 419

<210> 34697  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 34697

agcttccctt ctcccttctt ctgaccctcc attatcacia ccaatgtcac tcaccatag 60  
 aagcttccat gggtatcttc catgggtgtc actcaccata cgaagtttcc atgggtgcct 120  
 accaccaca ctactctcgg aaccctccac taccctccac aacaatcacc acaccatctg 180





acttgagaca caatcaccat acccaactca tccata

396

<210> 34700  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34700

tgcgcgaatc acanaactcc tacatggcat ctctagcatg ctttttcttt ctttaccac 60  
ccctcacgtt ggggtttttta gggaaaaaca ccataactaa acgcgccgca agggatccct 120  
atcgcaccag atccaaatct agaacgatgg gtgatcaaga ggagacgcac gaacagatga 180  
aagccgacat gtcggctctg aaagaacaaa tggcctccat gatggaggcc atgttaagta 240  
tgaagcagct catacagaag aacgcggcca ccgccgccg tgtcagttcg gctgtcgaag 300  
cagactcgac tctcttggca actacgcacc atcctccctc aaacatagta ggacggggaa 360  
gggacacact ggggcacgat ggcagccctc acctgtgata caaccgagcg gctta 415

<210> 34701  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34701

agctnttact gtccttgtgt taaatgtttg aatgagagag aactagaagt tgagaatata 60  
tgagcccatc ttttttgtga tgggttttgc aagagttata caacatgaac atggcatcgt 120  
gaatattttg acaaggaaag tgtgtcccaa acaaaggaag ttgatgtaga tatggatgat 180  
catctagaga atatgattcg tgatattgga tcaaagtctt ttcagcaagc acatgtgtat 240  
gatactttga aaagtgatgt ggaaatccct ttgtatctag ggtgcactag tttcacaagg 300  
ttatcaacaa tgttgaaatt ggttaatctt aagacgaana atgagtggat taataaaagc 360  
ttcactgaat tacttaagtt actggaaaaa tgcttctgaa aaataacaca ttgccaagct 420  
atcactgtga ggaaaaa 437

<210> 34702  
<211> 439  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34702

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aatgcagttt gataccataa ggaatcataa cctccaatta aacttagaaa aatgattttt 120  
caaagtacat gccgagaagt tcttaggttt tatgttgaca aagaggggaa ttgagggtaa 180  
cccaaataaa tgcaaggcca tcatgaaaat gagaattcca agaacggtca aagaagtga 240  
caactcatag ggaagatcat gtcctgtct tggttcttat caaaatcgac agagaaggaa 300  
ctccctctgc ttaagtgatt tcggaagaac aagcacttcc aatgggtgct agattgtgag 360  
aatgccttca aacaattcaa ggaattcttc acaacactac ccattntaac aaggccgaaa 420  
tcgaaaggct ctatacttg 439

<210> 34703

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34703

agcttatagt cattacttgt taagaaccat aagccagagt cgattgttcc ttgataaag 60  
tgaagaattt gttttgcagc cttgaaatga gtagtgggta gagtctcgat gtattggctg 120  
atgagtactc cagtagcata tataatgttt ggtcttgtgt gtcaaatac ataaactacc 180  
caccaaactc ttgaaatcta tagcatccag ttttcttgc tgcgcgaact ttgataactt 240  
cattntgcac tccatcagtg ttccaattgg cttgcatcta tccatcttga atntattaag 300  
catcttcttt gcgtagcttt gcagtgaat gaagatttca tcttcttct gctntacctc 360  
aatggcaaga tagtatgaca tttttccgat atcggtcacc tcanacttct tcatcatttc 420  
tttcttanac tctgataatt gt 442

<210> 34704

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34704

tgtaagagct tggtcacttc ctttntcacc acatctagaa tgacggngtt gagtcgtcgc 60  
 tgtggctacc tcaactggctt agctgcatcc tctaaaagta tcctatgcat gcaggtagat 120  
 gggctaatac caggaatgtc tgctaaagtc catccaatgg ccttcttggtg cttcttgagc 180  
 accggcaaca acttctcctc ttgctcaaca tcaaggaag cagagatgat cactggaaat 240  
 ttgatgcaat cctaccccg c aagggcattg gatagaagac tccaagtaga ttgggccaga 300  
 gatccaaggg aaggccctag ggttctcatg agccttaagg tagattntga gcccatgggc 360  
 taagtatgag cccgcttatc tttgtaatta ttagaat 397

<210> 34705  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34705

agctnttctt tatagngtat gtttcttggt ttattttattg gtattggata tgagtttatt 60  
 gttgcatatg gaactgatct tctgctgtta tcagattaag tctaaggata gataataagg 120  
 catcttctca agaaataaca aaataaattt ctacaaacta agattgagtc atttaacaag 180  
 gcttgtcaat ctccacgtgt aacatagaaa aactccaaa cagtccttga gcagaacacc 240  
 acatactagc caagaaagta atcctgtccc aaatggttggt ttgagatcac aaaatgcctt 300  
 tgaaaattct agcattcctt tgtagctata gacactagag agccaccana acaagcactg 360  
 ccacagaagt ttagcttctt tacaaaaagc cagatcctct anattgact 409

<210> 34706  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34706

tgttcgaca tcgttcggt gtatgatata cactcgacat ggtttgaagt agaagagacc 60  
 ttcaatccta ttacgcaacg tgacggacaa aagtgacag ttaacttgaa tgatcattat 120  
 tgncaatgca gaaagtattt tgcgcttcac tatccatggt cacacattat tgcagcttgt 180  
 ggttacatga gcatgaacta ctaccaatat atagatggtt ttacacaaa tgagcttaaa 240

agtttactcc gcacaatggg ggcctcttgg gaatgaagcg actattcctc cttctaata 300  
 cgcatggaca cttatccctg acccaactac aattcgtgcg aaaggctggc caaagtcaac 360  
 aaggataagg aatgagatgg attgggtcaa accatctaag caccgacaaa aat 413

<210> 34707  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 34707

ttgcagcctc gaaatgatta gaggctagag tctctatgta taggctgatg agtactccag 60  
 caccatatat aatgattggg cctgtcgtgt caaatatcat aaactacca ccatactctt 120  
 gaaatctata gcatacagct ttcttgcttc gtcgaacttt gataacttca ttttgcactc 180  
 catcagtgat gcaattggct tgcattctat catcttgaat ttattaagca tcttctttgc 240  
 gtagctttgc agggaaatga agaattcatc ttctttctgc ttacactcaa tggcaagata 300  
 gtatgaca 308

<210> 34708  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34708

attgacacta tagaattctg tgacactcta gaaaaactac gcntgctcga gcttggtcac 60  
 tacgcttgct gcaccacatg aacgagttgt acggattgtt gacaccgnct tcacgctgac 120  
 agctgngctg gagcacgtga ctatcactac cctcatccta tgcattgcagg tagatgggct 180  
 aataccacga atgtctgcta aagtccatcc aatggccttc ttgagcttcc ttgacaccgg 240  
 caacaacttc tcctcttgct caacatcaat ggaagcagag atgatcactt ggaaattgat 300  
 gcaatcctac cccgcaaggg cattggatag aagaactcca gtaaattggg ccacagatcc 360  
 aagggaaggc cctagnngtc tcatgagcct taaagtagaa tttgagccca tgggcttaag 420  
 attgagcccg cctatacttt gaattattac aataagtttt tcctttcggt agagcctgga 480  
 ttttgcccat tctcn 495

009101-9074280

<210> 34709  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34709

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 taggtataaa aaaatcaaatt atatcatggt atttttttaa attgggttaca ttattaaaaa 120  
 tatatttttc ctattaaata attttttata ttttttttac tctgggttgaa aaaggaatta 180  
 aataataaat caatttaaag aaaaaaaatc ttcaaaaatg aaataaaaact cctttttaat 240  
 caatgtaaaa gaatacaaaa ataatatgaa gaaattaatt gaaaaataac tttctttggt 300  
 ccttttcttg tgtaatttaa cattntatgt cttttcctat gtacaagaga ctataaacgt 360  
 aagttatgtg aaagaaacat tntcatataa tcattacgga tttgaatcct ctcatgtgaa 420  
 attcttg 427

<210> 34710  
 <211> 356  
 <212> DNA  
 <213> Glycine max  
  
 <400> 34710

tctctgtcta agtttctctc tctcactatt ggctatgata gccctgaatt tcttttattg 60  
 caggaaacgt tccgtgtcac gagtttcttt tatcacgtca cactcacggt tgccctcttc 120  
 tgggaagaat cattgatagc cctgaatttc tgctctcata acgctatatt ggcattgcgt 180  
 attaccttgt acatgccagc tttcatattc atcattgaat acgcagggat aatctctatg 240  
 atcctcgagt aagagtatta taacatggca aggatacttc tgagcacaga aatagctcac 300  
 acagtttggt atcttgatgg cgatgttctc cctcatttct gtctgtatta acctta 356

<210> 34711  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34711

665707-9072460

agcttggttat agtatcttac cacactcttg acatactctn tacttctgat tcttgtaata 60  
 attgagtttaa tgaaatgatg ctaatgtgtc tcagtccac tttatgtatg cattntctat 120  
 tctaatagcaa attttgtctt ccaagtcttt ccaacattta aaaaattagg aatcaatatt 180  
 tactcagatt tttaaattta acattccatt nttcatatat tgatcctact tgagagagca 240  
 ttgtttgtga cagtttggtt ttttttttaa tctttttctg atctntgtat actgcagnca 300  
 attgcaactt tctttgatca nattatggct aagattggng gaaacacttg ctgcccaggt 360  
 acataatata cttcaacgaa tcat 384

<210> 34712  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<400> 34712

tcgcttaagc gaatagagct ctccattgga acacatgtaa cccttcgcca taaaggccta 60  
 tatctaccga aactcttaac tagatgtaag ctctatcctc cctgctgcta tctttgaatt 120  
 cttattgtct cgcttttgta tcaaaccctt gtcattgtga agagctctta tatgaccttt 180  
 tacatcttga aagaaaacac tacatgcggg gacagaagct ccgctcgctaa gacaatttag 240  
 agaccggccg tgagcctacc atactacata acttcttat 279

<210> 34713  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34713

agcttgtctg gacaaagaca aggacagcca gtatttatca ccaaacttga agtatgttct 60  
 taaatgcatg ataaaataat tnatcatga gattgattta tttatttctg tttttaattt 120  
 gaccagtcta ttttaatatc cctgtatggc cttnttggtc ttgtttttta caatagaaat 180  
 tgacgtaatt ttgtagcaac tgttgagctc tttgttgat gatcctgatg cataatttct 240  
 ttgtaacagg gttacaggaa ttcttccgcc tctgagacgt aagttcaaga agttttaatc 300  
 tcttctcaca agtttagaan atattgagt gttgaagttt acaatattgt tctaaaatta 360  
 ttggtgttat ttgctggtga gttgattatt tggtttgaat caagtattan gtattaagtc 420

426

<400> 34714

<210>	34715
<211>	229
<212>	DNA
<213>	Glycine max

<400> 34715

<210>	34716
<211>	66
<212>	DNA
<213>	Glycine max

<400>                    34716

tagctaaaaa ggaaactcat tttaacaataa agagcaacat taaagaaact ttccctctta 60  
gacaac 66



<210> 34717  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34717

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 gtggatggcg cctcctctca cctcttttcc tttgtcttcc actgcatctc catggtggaa 120  
 aatcaccatt aaaggacctc attgaagctc anagatccaa cctccataga agccccacaa 180  
 tcaagcttcc atcagttgta gaccctaag accaagaaaa gacagcttcc acatgtccct 240  
 ttggtgtttt tgcttattgc cgaatgccat tcgggttatg taatgctcct gctacgttcc 300  
 aaagatgtat gatggctatc tttgctgaca tggtagagaa gtgcattgaa gtctttatgg 360  
 atgaattttc agtctttggc gcatctt 387

<210> 34718  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34718

tatgcgcata tttccttacg aacgttcact ttgcgcaaga catcctatta actaagaaaa 60  
 atgcacccat atacaatcaa ggcagcttcg ttacctagat tatttacatg tacttccaag 120  
 gtgtatttgt tacttacatc acacacatct ccttggttaa atttacatac atgcatactc 180  
 aaagcatttt ggggtaccaa aaattgcaca tgtgcacatc ttggtatttc taatacctat 240  
 acatacacia acttcatgat gaatattgac tatctacaca ataaagtgtc acatttcatt 300  
 ctcttttcaa gtttttgcta cctaaagctg catgcaaatt caagtatatt ttcctttgct 360  
 gactaaaatt gtattaaaag gtatatattc tttntgtaat gtattttctt tacataacat 420  
 gcaacatatt tatatata 438

<210> 34719  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 34719

agctntaact cggatgtccg attcangcgc ataatatatc gagacacttg atattgaata 60  
acagaagctc tcgagaaatt cgaatgggtca taacttttca cacggatgtc cgattcgggc 120  
gcataatatg tcgagacgct cgaaattgaa caacggaagc tctcgagaaa ttctaattggt 180  
cataactttt cactcggatg accggatcaa gcgcataata tatcgagacg ctcgaaattg 240  
aacaacggaa gcttccgaga aattcaaattg gtcataaact ttaactcaga ggcccgatgc 300  
atgcgcataa tatatcgaga cgcttcgaat tgaacatcgg aagctctcta gaaattcaaa 360  
tggtcataaa ctttcacttg gaggtccgat tc 392

<210> 34720

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34720

tgtagcaaata gcaaacggca ataacgttnt actcggatgt tcgattgagt cacgtaatac 60  
atcgaaaacgc tcgaaattga aaacagaagc tctgtgcaaa ttcaaacgac aatacathtt 120  
aactcggatg tccgattgag tcccgtataa tatcaagaca ctcgaaattg agaataaaaag 180  
ctctgaacaa attcaaacga caataacttt ttactcggat gtccgattga gtccagtaat 240  
atatctagac actcgaaatt gagaatagaa gagctgagca aattcaaacg acaataactt 300  
tttactcgga tgtccgatgg agtcccagac gtctcgatat attatgcgcc taaattggac 360  
atccgagtta aaagttatga caattttaat tgc 393

<210> 34721

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34721

agcttattga tgtgcttgct tcagttggtg atgctgctac ctatcgtgaa cacatggatg 60  
cgattcttga aggtctacct agggattttg actcanagat tgctctaatt gagagtcgtc 120  
taccacacat caccattgaa gaagctgaag gttacattct tacgcaagaa ctatgaattc 180

gaaaaataca ctacactcga atctttgagt aattccttca caccaacagt gaatcttact 240  
 caaatgagtt ctctgcattc cactgagaat gataactcaa attcgtactt tgacaccaat 300  
 acaatgtata ccaatcagta ttcctc 326

<210> 34722  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34722

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 aaggagaaat agtctcttaa tgagctcatt tcatactgtg tgcaagaaga gcaaaggccg 120  
 aagcaagaaa ggacctgctc atgttggtgag tacctctaaa tacaagggca aaagaaaaag 180  
 aactgaggag ctcaagaatg aagctgctaa aggttttagta caaaagaaac aaaatcaagg 240  
 tgacaattgt ttcttttgca gtgagcctgg acatgtaaag aagaaatgta ccaaatatca 300  
 tgcttgcat gcaaagaaag gtatgtttct tactttgggc tgttctgagg tcaatttagc 360  
 ttcagtacct aanaacactt ggtggttaga ttctggtgct actactaaca tcagtgtttc 420  
 aat 423

<210> 34723  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34723

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 taattatgac ctttcaagca acagatacaa tccaggttgg aggaatcatc caaatctgag 120  
 atggacaagt cctccacaac aacaacaacc tgccctcct tttccagaat gttgctgggc 180  
 caagcaagcc atatgttcct cctccaatgc agcaacaaca gcagcagtca caacaagac 240  
 aacaaggaac tgaggctcct cctcaacctt ccttagaaga gttagtgagg caaatgacca 300  
 tccagaatat gcaatttcag caagagacaa gagcctccat tcagagtctg acaaatcaga 360  
 tggngcagat ggctactcag ttgaaccaag ctcagtccca aaattctgac aaattgcctt 420

cacaaact

428

<210> 34724  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 34724

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atgggtgctc cctctctctc ttctcctttg ccttccgctg catctctatg gtgaaaaatc 120  
accattgaag gacctcattg aagctcacag atccagcctc catagaagct ccacaagcaa 180  
gcttccatca gtaaggaggt aagtgtctcc tccaacagga tagctgcaaa agaaactcat 240  
tcttcactca agagaaacat tccagatact atcccgtta gacgacctcc atattaactg 300  
tttcagaaaa aaacacttgc tagcattgcc acacctcttg ggcttgagtt tattcctcaa 360  
gt 362

<210> 34725  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 34725

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cacctaaatt gataaagaaa catcataaac tcatacatcc tatgcaaaca aggcaaatca 120  
ggtcccaata gtatcactta tcttttaatc atcttatctt ttatttttct tatcttatct 180  
tgttttatct ttatcttaat cttttatttt tcttatcttt tacctttatc ttctttatcc 240  
tttatcttct atctttgtct ttatttttta taatctttta attgaatatt ttatcttctc 300  
tatcttctat tttgggtcttt acatcttcta tcttttcttt cacatcttta tcttatctgc 360  
tatattgtct tatctttatt ttaaattaat tatcta 396

<210> 34726  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 34726

tgacaatatt acaaattctca atatacgttg ttaagtgtga ttatggatct tcatttggtg 60  
aaccatgaaa caaattgctc tgtattagtt gtatcaatga aggtgggtag gttaagtttt 120  
gtgcttgaac ctctggcgcg gcaacacttg agaaatattg cagcatcgaa gtacttgagt 180  
aatctttctca ggccactcat gcatgggtgct cttcatccat gacttcgggt tcaaattctg 240  
ctatttgaga ttccctggat gtaggcgaat tacaagatga tgactcagca aagcgagtct 300  
cttcaaagat tgatgctact gttctgtcgt gtaaaagctt tctttttctc tttgcgctgt 360  
ttcttct 367

<210> 34727  
<211> 358  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 34727

agctntcaat gtacaaacat ttagtatata caactcttat agagacagac acaatacagc 60  
agtcacaggc attgaactac tccattgtga ttgcatggat catgagtata taagtatcat 120  
cacatattca catatatctc atttatgatt acttattatg cacatacctg tctgtccatc 180  
caagcaacac tgtgacagat cacccaagca ggttgaatat tctgggggag gactaggata 240  
ctcgccaggg caatatgatc cccaactact ctcttctgca ttggaagctg tggatgcata 300  
tatattgata tgttaggtaa taagacctgc tatgagtact ccacatacac atgcctcc 358

<210> 34728  
<211> 417  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 34728

ntgcgngtg agcttaccg catgtctggc tctagtcacg gtcgacatct ccactttca 60  
tatcttttgc ttcgtagcca tgaccacat cttccaacca tcaccacctc caattggtag 120  
ccatgactaa tatatttcca ccatcaatat ctttgtttag taaaagtgtt atgggatggg 180  
ttacgataag tgtgcttgtg tccttaccct gngtttgcaa acttatccct aaccaaatta 240  
atacccaaca atacagggga caagattggg tggactagac ttgttagtat tatatatata 300

tatataatat tttataaact attcttttaa gtattgatta attaacaaaa ttgtgtcaca 360  
 ttatataagg aaaaaatatt catatataaa tatttcatta ataacattaa acactat 417

<210> 34729  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 34729  
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 atatattcag acgctcgata ttgaatgttg aatctctgag ccaatgcaaa cgacaataac 120  
 tctttactcg gatgtctgat tgcgtccgc aatatatcga gactcatcaa aattgactgg 180  
 tgaacctgtg agctgattca cagcagata actttgaact cggatgcctg attgagtcct 240  
 gtcatacatc gagacgctcg acattgaatg ttgaagctct gaaccgattc atacgaccat 300  
 aactgtatac ttggatgtct gattgacgct cgtacatatt gagacgctcg agattgtatg 360  
 ttgtagctct gagccaatgc atacggacat aactctttac tcagatgtct g 411

<210> 34730  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34730

tcaacattca attntgagcg tctcgcaata ttacgggact caatcagaca tccgagtaaa 60  
 aagatattgt cgcttgatt ggctcataga atcaacattc aatatcgagc gtctcaatat 120  
 attacgggac tcattcagac atccgagtaa aaagttattg tcgtttgaat tagctcagag 180  
 cttcaacaat caatttcgag cgtctagata tatgacgaga ctgagtcaga catccgagta 240  
 aaaagttatt gtcggctgaa ttggctcaga gcttcaacat tcaatttcga gcgtctcgat 300  
 atatgacggg actcaatcat acatccgaga tgaaagttat tgcggttga atttgctcag 360  
 aggttcaaca ttcaatttcg agcgtctcga tatatgacaa gactcaatc 409

<210> 34731  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 34731

ttcttgatct aaacaaatat ctaatcattc caatccactc aaatcatata attgctcatt 60  
caaatcattc tcaaacactc atttcatgca aaacaatcca ctacatatca ttttcaatca 120  
attcattggt caaacacgct tttggtacaa acaacaact caaagtgctg acatctatat 180  
aattgaaatt tacaacaatt gacatatata atctgaaatt aatatgactg aacataaatc 240  
ataaaataat tgaatataaa ctataatggt cgagatgcac aaatttacat gtctctgctgc 300  
tgatgggtgct cctatgcatg ctcattaang atcaacacct 340

<210> 34732  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34732

agctntaaac caaaacatgt aattgattaa tacgtagcaa taatcgatta aaacagacaa 60  
ttttgaacca aaacaccaca aacacataaa tggcaatcga ttaaatacatg gggtaattga 120  
ttcaaataata aagtttcaaa aattgataac tcacagaaac atagtgtaat cgattaacat 180  
gaatgagtaa tcgattaaaa caatgaaaaa caggaataaa tcaaagtga acatgtatatt 240  
ttcagagaaa aatcaacttc acatcaacat actaagacat ttgaagaana ttaatagaca 300  
tggagagcat atataacagg ctacttgtac taagcttagt cgtcattcaa tactagaccc 360  
atctaagata cctagttcat tcctaataaa gaagaacctt tctctagcaa c 411

<210> 34733  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 34733

tccttgagaa gcaaggaagg tagcatccta gggaagcgat gaagaaagct tcctttggaa 60  
gagacgaaga aagcttccgc tagagggttag ctactcacac cctccaata gctaagctca 120  
atcccatacc aaaatacatg aaaatgcaaa aaaattccta ctacaaagac tactcaaaat 180  
gcctgaaat agaaggctaa aatcttatac tactagggta tccttaactt gtagggtagg 240

tgtgccctta attttagggg taccctacaa acctaaaatg accaaaatac aaggcccaaa 300  
agaaggaaaa cctattttga tatttacaaa gaaaaatgga cccaaccttg gctcatgggtg 360  
atgcaatctt accccccaag ggtattggat agaagactcc aagag 405

<210> 34734  
<211> 435  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 34734

agcttcttca taaacgtggc atttgtgtgc aatacataat gcctaaaaca ccacaacaaa 60  
atgggtgtatc agaaaggcgt aatagaactt taatggatat gattaggagt atgttaatca 120  
attcaacttt actcgtatctt ttgtggatgt atgccttgaa aactgccatg tatttgttga 180  
atagggttcc tagtaaggca gttccaaaga caccttttga actgtggatg aataggacac 240  
ctagtataag gcacatgcat gtttgggggt gccagacaga aataaggatt tataatccgc 300  
aagagagaaa atnggatgca agaacaatca gtgaatattt catttggtat ccaaaaaagt 360  
catgnggtat atgttttttt gcctaatacat agtatgagaa ttggtgaaac tggaaatgca 420  
nggttactga aaatg 435

<210> 34735  
<211> 451  
<212> DNA  
<213> Glycine max  
<400> 34735

tgtaagcgac actatgcaat actccatctt atcgatgtat gaacttatga tgcagcgctc 60  
cgaacgccat caacagctgt tccgcacat tgctgactgt gatggctcgt cttaagggtac 120  
ttaccatggg gaagaaagat accctctctc ataaggctc cttcaactgc aataacctat 180  
ttcctcatga caacaatcaa ggtgccgaat gctccatgcc tgtgtgcaa tattaggata 240  
caccgtgtca catgatctgc tatgaaaacc actcatggct ccgttcaaga aatgagtggc 300  
cgagcgatga agtgctttgc cgaatgccaa cggaagaga atgagcaatt gtgcctctct 360  
atgcgaaacg ccatagacac aattatccaa ccttggtgtc gtcctataac agaacatgca 420



acaagatcta ataacaatgc ttggagttga a

451

<210> 34736  
<211> 375  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 34736

agctntacag tagattntag taatgaccca ctaacctaga attaaaataa cttaatgcca 60  
ttaacctagg gaattaaaaa aaacttaatg gctgagtgtg actgaaattg tggcaaccaa 120  
aagtcacccc caatagccaa caagtcatcc accatttggc ctcccaaaag gctgatgcct 180  
atgttgccaa ttgggccctt attacaactt gaactaaacc taactaaagc ccttttagtt 240  
gattaaccca caacatattt ttggtcagcc aactttacaa ggattgggcc attatttaga 300  
cagactanac actctaaaat tgaacaaaag tgggtgcatt tagtcctcct ccatttgggc 360  
catgatacaa ctcac 375

<210> 34737  
<211> 246  
<212> DNA  
<213> Glycine max  
  
<400> 34737

tctcgatata tgatgtcccg gagtcggaca tccgagcgag atgttatgac cattcacata 60  
tctcgagagc tagcgatggt caatggggag cgacaccatg tataatgtcc gcgaatcgct 120  
catgcgctg aacagtcatg accattccaa tttctcgaga gctatcgttg gtcaatgaca 180  
accggctata taactaatga cccaactcc agcatccgag cgaatagtta ggacccttca 240  
cctttc 246

<210> 34738  
<211> 434  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 34738

agctncatan gataccactg ggcccagggt cattanaagg tttcatactg gaaaattaca 60

ttccttaaat ctogtcattt ttgtaaaggc tttttgaatg gctttccggn tcaacaaact 120  
 ttgcaaatct ttgaacatcg tgaaaaaagg ccaaaaatta atgtagtgac cttgagcttc 180  
 aaagctttat ttgtcacatt tgtcaaataa gaaaaccttt caaaagtttc aaaacatttg 240  
 acattattta taanaagtcc ccaaataaat acttttttta ttgcgagcat tatcattntt 300  
 gtatactcag ttttatgaat aatagttttac aaatacctag ttgttntaaa nttaaaaatt 360  
 aaagtttatt gtgttataaa atctcaaaag catactcatt ttattggagc atatttttta 420  
 tgattcaatt tata 434

<210> 34739  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 34739

tcaaagggtg tattgcatta gaattccggt tgactcattt ttattttgaa gattgcctta 60  
 aaattaaaat ttagaaataa gaggttttaa tataactaaa agaattaata tatatttttt 120  
 taaaaatttc attaacttaa aatagatcat ctgaaatgaa gaaattaagg aagtttcgga 180  
 catgcggttc aaacttggtg aaaatatgtg tgtgtttttt tttgttcgt tgctttctga 240  
 aatttatgat tgtgcgtaac ccgaggtcta cgttctacaa atgaatgcca tttagactaa 300  
 agaaacatga ctccgcattt tcatctaaat tattactttt tagaatgcta ccgacacatt 360  
 aacaacctaa gcagcacatt aacaaaattt aactgatcga ttctagttcc caaccctcat 420  
 tttgggttat t 431

<210> 34740  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34740

agctttaga attatggngt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
 gcacaacaag ctttccacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120  
 ctccatctga gtcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180  
 ccccatcaat cctctcaagc ttccacaaca tccaagcaaa acaacattca aacagcacia 240

gctatcacag ccaagcaaaa cagagcanag gcagaaaact ctgctcaaca catcaaccaa 300  
aatcacagct tttctcactt anagacccca gtaacaattc cttcgatcca attcgттаac 360  
cggtggatcg actccaaaat tntactggaa gtctatagtg tataagccta cattgtgacc 420  
gttgggatct act 433

<210> 34741  
<211> 80  
<212> DNA  
<213> Glycine max

<400> 34741

tctatactct atacaagaat taagctctga taccacttgt tagacaagtg gcctcataaa 60  
tcttaagagg gggggggggg 80

<210> 34742  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34742

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gtggatggtg cctccccat cctcttctcc tttgccttcc gctgcatctc catggtgaaa 120  
aatcaccatt gaaggacctc attgaagctc aaagatccag cctccgtaga agtccacaa 180  
gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240  
tccattaatt ntttttcttt accttctctt ccattgatga ttcttcattn ttctccatgt 300  
atctcctcac atgtcttggt ctanatgttg ttaacatgat tctttagagt ttccaccgat 360  
taaacttgct atagaagtta gaattgattn tctatggntc acatttcttg ttcttggtct 420  
tg 422

<210> 34743  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 34743

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tcaatttcga gcatctcgac atattatgtg cccgaatctg actttcgtgt gataagctct 120  
gaccatttga atttctcgag agcttccgat gctcaatttc gagcgtctca atatattgtc 180  
cgctgaatc ggagctcagt gtgaaaagct atgaccattt gtatttgtcg aatgcttcct 240  
tggttcaatt tcaagcatct ccgaataatt atagtcttga gtctaacctc cgtgtgaaaa 300  
gatgtgacca ttcgaatctc tcgagagctt gcgttgatca ctttcgagcg tctctgtata 360  
ttatgcgccc gaatcagaca tccgggtgag aagtcac 397

<210> 34744  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 34744

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aagattccta aagaagctag agtttaacta cacataacct tctaatagct aagttcacct 120  
ccttgagatg agaagctaga acttagctac acaccccccta tagtagctaa gtcaccccc 180  
atgacaaact acatgagaat acgaaataaa tccctactac gaagactact cagaatgcct 240  
cgaaatacaa ggctgaaacc ctatactact agagtggcca caatacattg cccagacgaa 300  
ggagtaacct attctaatat ttacaaagat aagcgggctc atacttagcc catgggctct 360  
taatctagcc taatgctcat gagaacacta gggccgttcc ttgtatctct ggcccaatct 420  
acttgagtc 430

<210> 34745  
<211> 129  
<212> DNA  
<213> Glycine max

<400> 34745

acttcatctt gatgggtatt ctgccgttgt acaagatcta tggacacaat gttgaatgct 60  
cttgatagc tcctatgcgc tattgagaat gaccattcct aatctctaca gagccttcgt 120  
cgctcaatt 129

<210> 34746

<211> 389  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34746

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 cgtgaagtgc gtggctacga gtggaacttc gaacatccag gtttgggtgg acttctttct 120  
 ctcttanatt tegtgggtat gngggtttgg gagatatgat ggggtggcttt gttagttttc 180  
 tgctgtgtga tgattatttg tgaaggcatt tgctgaatac ttgatgaaat cgccatgttt 240  
 ggatgagtta gacataccca ttctggttta tgggttttgg tgatgatgtt tgtgatgggt 300  
 atatgctgaa attgctgatg gaaatctgtt atagacaaag ggtagaacta acccaagggt 360  
 agaaagtgag aatgtgattg tatgagtgg 389

<210> 34747  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 34747  
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 aaagacgatg ttttgggtgg ccaacataaa gagagagggtt attgagtttg tgtatgcatg 120  
 cctagtctgt cagaaggcta agatagaaca ttagagacct tcaaggaagt tacaaccctt 180  
 agagataccc tagtggaagg gggacagtat ttccatggat tttgtggtag gactacctag 240  
 gaccctaga ggcttagatt ctatctgggt tattctcgat agattgacta agtctgctca 300  
 cttcattccc attaatatca gattttcctt ggaaaagttg actaccttgt atataagtga 360  
 gggtttcaag ttacatgggtg tgccatctag catagtatct gat 403

<210> 34748  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34748

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aaacaataca ttctcaagca ccttgagaat aaattaaaca ctaccatggg catgcatatt 120  
gcaaaaaata tgaccttttc tctaataaat cacttcaaac caatgataac taatcaatat 180  
tatgcaacta attaaaataa agaatggaaa aaagagttgt tttaggactc aaattataaa 240  
tgaaagctca aaattgaaac tgccttgcac atgacaccta agaaggatag attatgagat 300  
atgttaacct ttccttacct gtattcgagc tctagaccct actatgatat ttgagattgg 360  
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<213> Glycine max  
<223> unsure at all n locations  
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cacggacacg tggcagggtt gccactgcat tntacgaaac gagaatgggc atttcgggtca 240  
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<223> unsure at all n locations  
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 cgatatatga cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360  
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 aaagacaagt gatgagggca ttttacttca ttctattatc atgcaatcaa tagtttttgt 300  
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<223> unsure at all n locations  
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 caccaccaat ttgagttgtg gaaaaaagta acgtgtcaat atttttaaatt gccccaatat 240  
 gatctgtcag attgcctgaa agtcgtgaac tctgaactgc aagtcttgtg agtccatggg 300  
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 tanatctatc accct 375

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 cgtggattca gtcacaaaac aaacttcaat atgttggact gtctaacacg gggatttttag 180

attttattcc cacttggttc tgggaagcac attctcaggt tttgtattta aacctctctc 240  
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<210> 34758  
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 ctaacatcaa gatcacacca gtacggaaga tcaaagaaaa tggacctctt cttccatag 360  
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<223> unsure at all n locations  
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 aatcgatttg aaatttggtc atgaccatat ccataatgct ccatcactag cagctgcatt 180  
 aataagaatg cactttcatg actgttttgt aagggtatgc gtcceaatct ttaagcttct 240  
 ttcattttta cttaacaagt acaatgttat tgtagatta aggttaagga gctaactaag 300  
 atgaagcatt tcagggatgt gatgcatcag cccttttgaa ctcaacaacc aatcagggtg 360

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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 atgggcaagt actccaaaac aacaacaacc tgtccctcct ttccagaatg ctactgggtcc 180  
 aagcaagcca tatgttccta ctgcaatgca acaacagcag cagcagtcac acaaagaca 240  
 acaattaact gaggtcctc ctcaaccttc cttagaagag ttagtgaggc aaatgaccat 300  
 ccagaatatg caatttcagc aagagacaaa agactccatt cagagtctaa caaatcagat 360  
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 <212> DNA  
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 <400> 34761

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 gctgactacc caagaatacc atggtaaaac ctttaagata ctaaagcata ccctatagag 180  
 gtgtcaagta ttcagctctg ccgaattccc aagtaccaca attaccttat ccttcaaagg 240  
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<210> 34762  
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 <223> unsure at all n locations

# Chapters 1-5

<210>	34763
<211>	433
<212>	DNA
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 atcgtttctg tcatgttggg gcaagataac tgctgaggat tgagttataa ctatcgttgt 360  
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 <213> Glycine max

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agaattcacc ccaattccag tgcctatgc tgacttgc ccatatctac ttgataattc 420  
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<213> Glycine max

<400> 34768

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<213> Glycine max

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<212> DNA

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<400> 34780

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 gagagagaag cgattagcga gaaaattgga gagtgggtgag acttttggtt gggttggcca 180  
 tgaaggaagg ggtgctatgt gtcaactagc tacgtgggtg aggtggaaga ttgtgtgtca 240  
 ccaagtgagc ttgcatgaga ggtgaggtgt tggctaatta tggattagct tttatgtaca 300  
 ccaagcttag tttaatttta cactgtgtaa ttataactca ttaacattct atagcaactc 360  
 ttatcatcac atctatatta gctgatctgt aatgaccgcg tgctcgtaca tggatctaga 420

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428

<210> 34781  
<211> 358  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 34781

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gggaagacac gtatccgaga caaccaggag gtagaattga cgagaaatag tgtcaaatat 120  
ttcagatttg gcagatcagg tcatatcaaa agaaattgca gaactagact cnttaaagtg 180  
aatgctacat acgaagaaga tgaagatgac tcatttgagt cacttacann nnnccaatgc 240  
ttcgccatct acgatcggac gattggacgg cccgggggtac tagtcaatta cctagattac 300  
cagagagaat ggatcctaga ctctagttgc tcacatcatg taatangaaa ggggtgggt 358

<210> 34782  
<211> 426  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 34782

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tttagagcaa gcttatgctc ctatttcctt acaaacgttc tcttgcacaa gacatttaac 180  
cgaaaaaatg cacccatata caatcaaggc agtttcgtta cctagattat ttacacgtac 240  
ctccaagggtg tatttggttac ttacatcaca cacatctcct tggctaaatt cacatacatg 300  
catactcaaa gcattntggg gcaccaaaan atgcacctgt gcacatcttg gcatttctaa 360  
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tttcat 426

<210> 34783  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 34783

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 cccttccatg cagcaacctg gagcaattga gcagcctgaa acttatgctg caaatattta 180  
 caatagacct cctcaacctc agcagcaaaa tcaaccacag gagagcaatt atgacctttc 240  
 cagcaacaga tacaacctg gatggaggaa tcacctagc cttagatggt ccagccctca 300  
 gcaacaacaa cagcagcctg ctcttctctt ccaaaatgct gctggcccaa gcagaccata 360  
 cattctcca ccaatccaac aacagcaaca accccagaaa cagccaaca 409

<210> 34784

<211> 321

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34784

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 aaaggagaga aggaaaattt ccaatccaag gaaaaaaga gaggaaggga aattccaat 180  
 caaagagtgg gagaaagcca aaagaaaaga aagaaaattc ccaatcaaag aatgggagaa 240  
 agaaaaaaga gaagaagaaa gggaagaaaa gtcccgatca aaaaaaata atatgcagaa 300  
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<210> 34785

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34785

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 aatgatccca aacttgcttc caattaggcc atcaaattaa ttaatcctta attaagcctg 180  
 cttatgtgag atccaactca gctatatccg ntttctttat attattttct gcctctttga 240

ttaaaaacta aaatgtaa at aaaaaaacta acaatcaaaa aagacaatat tacttttctaa 300  
 tcacatatgt tgcttttttaa tctggaagac acaaaacgga gagcanatga tttccatcca 360  
 cttataacct accaatgttg gcctttattc agaccagcgg ctagtggcca ttggcttttaa 420  
 nttaatcgta atataactca t 441

<210> 34786  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34786

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 aaactctggt gtcaatagag gaacgaattt atagggtccca gagttcgta atagttgggt 180  
 atttttctga gaaggtaaat agttagttat taggtttggt agtaattagc ttgcacggcg 240  
 agctttttctc tataaaagac acgcatgagc accccttata taataatcat agtccttcta 300  
 tctattgggt ttctacataa acatctcaga atttcacctt caacttaaac aattaaagat 360  
 ttaagactag gaatctaana catggctaaa ttgacaagt ttttgagtat aaaattaacc 420  
 gtcccaatgg aatgaaatat t 441

<210> 34787  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34787

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 gcatgagatg agtctgtgag tgattgtgag gttctagagg tggaggagac atccccacta 180  
 cttgtatttc ttcaatcctt cattttttctc ttctctttgt tgtaaaggaa gcttcccaga 240  
 tatggagagc taaatccttt ggtgggtcct ccttgtaggt acttgatgta aatacttgta 300  
 tatctattta atgatgtttt atgtgttctc tgtgtctatta gtacgtcatt ctacgtgtt 360

tctgccttga tcatgtagat tcatgcttct gtaggatcat tcaacagttg aaactggttc 420  
gattct 426

<210> 34788  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34788

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tgttcgctaa gcacactgct tcatctcact aagcgctccg cttcagttca tccgctaaac 180  
gagaaaggcg tgctaagcca aaaatcacca aagtgcacta agcggaccat aagtgcgcta 240  
agcgcacgag catgaacaag gacacctatt taagcctaaa atcagatttt gtgaagagag 300  
tttggactgg gattcagagc tttgcatgtc tagggtttct agagagagaa aggtccaagt 360  
tccagagagt tttgagagat tntgttttgt gaaaatctgc agagaccana gcttgaaaca 420  
ggaaccg 427

<210> 34789  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34789

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agaaatgtga ttggacagat tatatatata tatatatagg agagagatca aattacatta 180  
actttaactt tgattaagta ttataccggt caataatttt taattggata atattttctt 240  
aaaacctata atgggattga aattttatct cacttagatc atatatacaa aattttatat 300  
taatccaaaa ttaattgtta cctcattcat tcagattaaa attgacctaa tataaacnt 360  
tcaaaatata ttaaaatata gatcgtttga ttaccttatt attgttcaat tntgacaaaa 420  
attcacacaa 430

<210> 34790  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34790  
  
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 cgtgttggtt tcatcatcat tattctgttg aaaatgactg gagatacagc tgtgaacaaa 120  
 attgatttaa ctttggactt tcgaagcctc ctttctttgt gacttttcat ttgggcaaca 180  
 gtgggattat ttggcaaagg aggaacttcg tagtcctctt ctacntgttg ccatacctcg 240  
 ttagcatcga aatatgcttc catnnngaca gcctatattn gatagnttag tccatcaaat 300  
 acgggtacag aaatggtagt aaaggagggt tcagattcca tcttatgtgt ggtggctact 360  
 tggngcgtgt aggtgtttgt gggttatatc acagatctc 399

<210> 34791  
 <211> 546  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34791  
  
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 gagccacgat ggtatgaggt gaccttgact tcatttacgc acacatcagt acatgggtgtg 180  
 tctgggtgaa catgaggtac agggcatcat atggaagact atgagcgagc ttatgcacct 240  
 agttccttgc aaacgtgact cttgcgaccc attgttctag cgagaaaatg caccggttta 300  
 ccatccatga agctcttttc cctagattat atacacgaac ctacacagtg agattatacg 360  
 tacatacaca caattccttg gctaaagtca catacatgca tatctcaagc attatgtggc 420  
 accacataat tgcactctgt gcacatgatt ggcatttata atacctatac ctacgcctac 480  
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 ggtctn 546

<210> 34792



[illegible]



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tgatcaatcc ataagacaat aacaatcaaa cacttgtgac tgtaaaaagg agaaatt 417

<210> 34797  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 34797  
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aatgcaattg gctcccagtg gagctgaact catgaatcca ttctcctcct gaggtcatac 360  
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<210> 34798  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34798  
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agaaaactag ctgacgggccc taaaagaaat gttataactt ggcaaggata cgacataaac 180  
aagtattcat tttacacaaa atgggcccag ctttgccaga ctacagaga cttttcttgg 240  
gacgtatgta ccttgccatt taagttgttt ttaaaaaaac attaacttgt tataattcat 300  
tctagcaatt tgaaacgcta ttgttttatt tttgcaggat gtgtggaaaa aggcaaaggc 360  
catccagaaa tagaactg cccccacgt 390

<210> 34799  
<211> 416  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34799

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ntttggcact gtgtttccgt tcttggttaat aagataagaa aattccttct tcttgattct 180  
tctttcacta aacatattaa acacgttaat taaacatgta ctctataacc caactatgaa 240  
aaaatatcgt atattatgtg ctccaaaact tccttggaat tttcgtanaa aagaagatta 300  
taatagtaaa aaaaaaaaaac tccattatta gtctagtact acaaacaaaa ataatgtaat 360  
aatagtaaaa caccaatcag gtaatgccaa ccattccaca cagcattttc cacaaa 416

<210> 34800

<211> 400

<212> DNA

<213> Glycine max

<400> 34800

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gatgctcgga aaaggaagct tggggactgt ttacagagcg gtgctcgatg acagctgcac 120  
cgtggctgtg aagagactca aagacgctaa cccctgcgag agaaatgagt ttgaacagta 180  
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cgctaaagaa gacaagcttc ttgtctatga ttatctgccc aatggaagct tgcattctct 300  
tcttcattgt tagttaaact caaactcgag cgagctctga tgggacatga tccttcattg 360  
taaactttta ttaatttgat aagcttgatt gtttatatat 400

<210> 34801

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 34801

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cttatgtgct tgagagaaac actagccttg tgaggaatga agcatgggtga atcttctgtg 180  
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 gttagtttac ttttgctaga ggacaaacaa agctnntaaa ttggggggagt tggataactg 420  
 ctgtgcatag atata 435

<210> 34802  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 34802  
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 ttccatacac ctatatacat tctgaacaag aaaacatact ttcattgctca aagtgttgcg 240  
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 aagctaatta catcctgcac acactagcat tcaaaaggaa attccatact atcatacatt 420  
 catttacgaa aataact 437

<210> 34803  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 34803  
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 caccggatcg cgcaagtagt ataaaacggt aagaaccgag tatcgaactc tcagggaact 240  
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gactatgaac aggtatgtaa actaattatt aaaaaggaaa atcacgtgag aaatgatgtg 360  
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<210> 34804  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34804

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 aatggcatta gcgcgtggtt ttcgtaggga aacaacccat ggggtgtttt ggtttgcaca 300  
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<210> 34805  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 34805

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 agaaaagaaa tagcagtttg taaaaggagt tggattctaa aaacagacag aaattttttg 180  
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<210> 34806  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34806  
  
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 caggttacca cctg 434

<210> 34807  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 34807  
  
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<210> 34808  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 34808

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gagtgtangc tgcataaaat tagttatgaa taacaagttt aagtatatat canagttaaa 360  
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cattattgaa tttccga 437

<210> 34809  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 34809  
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aacactttta ataaaaataaa ctaactttca gttaaaaatt agcattagct tattacctaa 300  
tcatttccaa acataaacta agcagaacac taaatcttcc aaaatctaaa acaaacatat 360  
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<210> 34810  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 34810

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